## QUEENSLAND.

## REPORT AND RECOMMENDATIONS

FOLLOWING ON

## AN ECONOMIC INVESTIGATION

BY

THE LAND ADMINISTRATION BOARD

OF THE

# UPPER BURNETT AND CALLIDE VALLEY LANDS

AND OF THE

OPERATIONS OF "THE UPPER BURNETT AND CALLIDE LAND SETTLEMENT ACT OF 1923,"



1929. QUEENSLAND. My some stary 11 624 9 Alson Alexans

## REPORT AND RECOMMENDATIONS

FOLLOWING ON

## AN ECONOMIC INVESTIGATION

BY

## THE LAND ADMINISTRATION BOARD

OF THE

## UPPER BURNETT AND CALLIDE VALLEY LANDS

AND OF THE

OPERATIONS OF "THE UPPER BURNETT AND CALLIDE LAND SETTLEMENT ACT OF 1923."

PRESENTED TO PARLIAMENT BY COMMAND.

BRISBANE:

BY AUTHORITY: ANTHONY JAMES CUMMING, GOVERNMENT PRINTER,



## Table of Contents.

				A DEPTH A DILLE HOD SETTIUDS	11
	GENESIS OF INQUIRY.	Page		ADDITIONAL AREAS FOR SETTLERS.	Page
1.	First duty of Board	5	I.	Administrative difficulties in granting additional	23
11.	Need for attention to Upper Burnett scheme	5		areas	
	Early administrative reform	5	II.	Two main classes for consideration	23
III.		6	III.	Should additional areas be granted some dis-	
IV.	Personal investigation by Board	U		tance away from original holdings?	24
	HISTORY OF SETTLEMENT.		IV.	Summary of recommendations as to areas	24
		6			
I.	Locality of lands	6		CAPITAL VALUES AND RENTS.	
II.	Character of country		-	Range of capital values and rents	25
III.	Previous occupants of the land	6	I.		20
IV.	Resumptions for closer settlement	7	II.	The method of adding loading for roads and	0.5
∇,	Area comprised in settlement scheme	7		bridges	25
VI.	Special expenditure incurred—		III.	Conflicting views of selectors	26
V 1.	(a) Land resumptions	7	IV.	Rents are merely 12 per cent. of capital values	26
	(b) Railway construction	7	v.	Recommendations as to rents	26
	(c) Roads and bridges	8			
****		8	E	REEHOLD TENURE V. PERPETUAL LEASE	Ξ.
$VII_{\phi}$	Water facilities and Agricultural Bank advances			Difference between annual rents on agricul-	
VIII.	Summary of special expenditure	9	1.		26
IX.	Costly nature of modern settlement schemes	9			20
x.	The old method and the new	9	II.	Merit of freehold v. perpetual lease is a political	26
XI.	Settlement measures up to standard prescribed by			question	20
	British Economic Mission	10	III.		0.77
XII.	The scheme as measured in money	10		tenure	27
	The scheme as measured in population	11			
XIII.		11		WATER FACILITIES.	
XIV.	Settlement failures in Western Australia	11	I.	Need for artificial supplies	27
	PROCEEDINGS OF BOARD.		11.	Government assistance granted	27
_		11	III.	Method adopted	28
Ι.	Sittings held			Ossilitas of second deser	28
11.	Witnesses examined	11	IV.	Quality of work done	
III.	Miles travelled	11	V.	Weakness of method	28
IV.	Proceedings in private	12	VI.	Water charges over-capitalise some blocks	28
			VII.	Illustrations of over-capitalisation	29
	THE MUNDUBBERA SETTLEMENT.		VIII.	The possibilities of earth tanks not sufficiently	
I.	Relevancy of the Mundubbera lands	12		tested	29
II.	Acknowledgment of public service rendered by		IX.	Particulars of water facilities	29
	witnesses	12	x.	Total Crown expenditure to date on water	
III.	Facts established by Mundubbera evidence	12	Α.	facilities and equipments	30
	What Mundubbera has done, the Upper Burnett				30
IV.		14	XI.	Amount covered by settlers' mortgages	
	may do better	1.7	XII.	Loss incurred by Crown	30
UP	PER BURNETT AND CALLIDE VALLEY LAN	DS.	XIII.	Overhead costs are too high	30
	Four determining factors in land settlement	14	XIV.	Recommendations in regard to water facilities	31
		D		ROADS AND BRIDGES.	
	QUALITY AND SUITABLENESS OF THE LAN	D		ROADS AND BRIDGES.	32
ς	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.		I.	Early settlement and roads	32
Ι.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement	D 15	II.	Early settlement and roads Need for additional roads and bridges	32
ς	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared	15	II.	Early settlement and roads	
I. II.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement  Prospects of districts are favourable compared with other closer settlement districts	15 15	II.	Early settlement and roads  Need for additional roads and bridges  General road policy and expenditure  Plant and gangs employed and general standard	32 32
I. II.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement  Prospects of districts are favourable compared with other closer settlement districts  Climate and rainfall	15 15 15	II.	Early settlement and roads	32 32 32
I. II.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement  Prospects of districts are favourable compared with other closer settlement districts	15 15	II.	Early settlement and roads  Need for additional roads and bridges  General road policy and expenditure  Plant and gangs employed and general standard	32 32
I. III. IV.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts Climate and rainfall Floods and dry seasons	15 15 15 15	II. III. IV.	Early settlement and roads  Need for additional roads and bridges General road policy and expenditure  Plant and gangs employed and general standard of work  What Board's inspections showed	32 32 32
I. III. IV. CH	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement  Prospects of districts are favourable compared with other closer settlement districts  Climate and rainfall  Floods and dry seasons  ARACTER AND SUITABLENESS OF SETTLE	15 15 15 15 RS.	II. III. IV.  v. vI.	Early settlement and roads  Need for additional roads and bridges  General road policy and expenditure  Plant and gangs employed and general standard  of work  What Board's inspections showed  Repair work undertaken forthwith	32 32 32 33 33
I. III. IV.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts Climate and rainfall Floods and dry seasons	15 15 15 15 RS.	II. III. IV.  V. VI. VII.	Early settlement and roads Need for additional roads and bridges General road policy and expenditure Plant and gangs employed and general standard of work What Board's inspections showed Repair work undertaken forthwith Local Authorities interested	32 32 32 33 33 33
I. III. IV. CH	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts  Climate and rainfall Floods and dry seasons  ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type	15 15 15 15 RS.	II. IV.  v. vI. vII. vIII.	Early settlement and roads  Need for additional roads and bridges  General road policy and expenditure  Plant and gangs employed and general standard of work  What Board's inspections showed  Repair work undertaken forthwith  Local Authorities interested  Suggested change of Shire headquarters	32 32 32 33 33 33 34
I. III. IV. CH	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts Climate and rainfall Floods and dry seasons  ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type  MARKETS AND PRICES FOR PRODUCTS.	15 15 15 15 RS. 16	II. IV.  V. VI. VII. VIII. IX.	Early settlement and roads Need for additional roads and bridges	32 32 33 33 33 34 34
I. III. IV. CH I.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts Climate and rainfall Floods and dry seasons ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type MARKETS AND PRICES FOR PRODUCTS. Variety of crops	15 15 15 15 RS. 16	II. IV.  v. vI. vII. vIII.	Early settlement and roads  Need for additional roads and bridges  General road policy and expenditure  Plant and gangs employed and general standard of work  What Board's inspections showed  Repair work undertaken forthwith  Local Authorities interested  Suggested change of Shire headquarters	32 32 32 33 33 33 34
I. III. IV. CH	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts Climate and rainfall Floods and dry seasons ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type MARKETS AND PRICES FOR PRODUCTS. Variety of crops Butter and cotton are chief products	15 15 15 15 RS. 16	II. IV.  V. VI. VII. VIII. IX. X.	Early settlement and roads  Need for additional roads and bridges General road policy and expenditure Plant and gangs employed and general standard of work  What Board's inspections showed Repair work undertaken forthwith Local Authorities interested Suggested change of Shire headquarters Mount Lookerbie-Monto road v. railway General recommendations re roads.	32 32 33 33 33 34 34 34
I. III. IV. CH I.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement  Prospects of districts are favourable compared with other closer settlement districts  Climate and rainfall	15 15 15 15 RS. 16 16 16	II. IV.  V. VI. VII. VIII. IX. X.	Early settlement and roads  Need for additional roads and bridges  General road policy and expenditure  Plant and gangs employed and general standard of work  What Board's inspections showed  Repair work undertaken forthwith  Local Authorities interested  Suggested change of Shire headquarters  Mount Lookerbie-Monto road v. railway  General recommendations re roads.	32 32 33 33 33 34 34 34
I. III. IV. CH I. II. III.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts Climate and rainfall Floods and dry seasons ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type MARKETS AND PRICES FOR PRODUCTS. Variety of crops Butter and cotton are chief products	15 15 15 15 RS. 16	II. IV.  V. VI. VII. VIII. IX. X.	Early settlement and roads  Need for additional roads and bridges General road policy and expenditure Plant and gangs employed and general standard of work  What Board's inspections showed Repair work undertaken forthwith Local Authorities interested Suggested change of Shire headquarters Mount Lookerbie-Monto road v. railway General recommendations re roads.	32 32 33 33 33 34 34 34
I. III. IV. CH I. II. IV.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts Climate and rainfall Floods and dry seasons  ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type  MARKETS AND PRICES FOR PRODUCTS. Variety of crops Butter and cotton are chief products Cotton production is going backwards Early guaranteed prices for cotton.	15 15 15 15 RS. 16 16 16	II. IV.  V. VI. VII. VIII. IX. X.	Early settlement and roads Need for additional roads and bridges General road policy and expenditure Plant and gangs employed and general standard of work What Board's inspections showed Repair work undertaken forthwith Local Authorities interested Suggested change of Shire headquarters Mount Lookerbie-Monto road v. railway General recommendations re roads.  PERATIONS OF THE AGRICULTURAL BANK Applications for advances approved and refused.	32 32 33 33 33 34 34 34 34
I. III. IV. CH I. III. IV. V.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts Climate and rainfall Floods and dry seasons ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type MARKETS AND PRICES FOR PRODUCTS. Variety of crops Butter and cotton are chief products Cotton production is going backwards Early guaranteed prices for cotton. The Commonwealth Cotton Bounty Act	15 15 15 15 RS. 16 16 16 17 17	II. IV.  V. VI. VII. VIII. IX. X.	Early settlement and roads Need for additional roads and bridges General road policy and expenditure Plant and gangs employed and general standard of work What Board's inspections showed Repair work undertaken forthwith Local Authorities interested Suggested change of Shire headquarters Mount Lookerbie-Monto road v. railway General recommendations re roads.  PERATIONS OF THE AGRICULTURAL BANI Applications for advances approved and refused. Other financial institutions may compete with	32 32 33 33 33 34 34 34 34 35 K.
I. III. IV. CH I. III. IV. V. VI.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts Climate and rainfall Floods and dry seasons  ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type  MARKETS AND PRICES FOR PRODUCTS. Variety of crops Butter and cotton are chief products Cotton production is going backwards Early guaranteed prices for cotton. The Commonwealth Cotton Bounty Act Area and value of cotton crop	15 15 15 15 RS. 16 16 16 17 17 17	II. IV.  V. VI. VII. VIII. IX. X.	Early settlement and roads Need for additional roads and bridges General road policy and expenditure Plant and gangs employed and general standard of work What Board's inspections showed Repair work undertaken forthwith Local Authorities interested Suggested change of Shire headquarters Mount Lookerbie-Monto road v. railway General recommendations re roads.  PERATIONS OF THE AGRICULTURAL BANK Applications for advances approved and refused.	32 32 33 33 33 34 34 34 34
I. III. IV. CH I. III. IV. V. VI. VII.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts Climate and rainfall Floods and dry seasons  ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type  MARKETS AND PRICES FOR PRODUCTS. Variety of crops Butter and cotton are chief products Cotton production is going backwards Early guaranteed prices for cotton. The Commonwealth Cotton Bounty Act Area and value of cotton crop Amount of Commonwealth bounties paid.	15 15 15 15 RS. 16 16 16 17 17 17 17	II. IV.  V. VI. VII. VIII. IX. X.	Early settlement and roads Need for additional roads and bridges General road policy and expenditure Plant and gangs employed and general standard of work What Board's inspections showed Repair work undertaken forthwith Local Authorities interested Suggested change of Shire headquarters Mount Lookerbie-Monto road v. railway General recommendations re roads.  PERATIONS OF THE AGRICULTURAL BANK Applications for advances approved and refused Other financial institutions may compete with Agricultural Bank	32 32 33 33 33 34 34 34 34 35 K.
I. III. IV. CH I. III. IV. V. VI.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts.  Climate and rainfall Floods and dry seasons  ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type  MARKETS AND PRICES FOR PRODUCTS. Variety of crops Butter and cotton are chief products Cotton production is going backwards Early guaranteed prices for cotton. The Commonwealth Cotton Bounty Act Area and value of cotton crop Amount of Commonwealth bounties paid. Is the cotton industry worth establishing?	15 15 15 15 RS. 16 16 16 17 17 17 17 18 18	II. III. IV.  V. VI. VII. VIII. IX. X.	Early settlement and roads Need for additional roads and bridges General road policy and expenditure Plant and gangs employed and general standard of work What Board's inspections showed Repair work undertaken forthwith Local Authorities interested Suggested change of Shire headquarters Mount Lookerbie-Monto road v. railway General recommendations re roads.  PERATIONS OF THE AGRICULTURAL BANK Applications for advances approved and refused. Other financial institutions may compete with Agricultural Bank IMMIGRATION SETTLEMENT.	32 32 33 33 33 34 34 34 34 35
I. III. IV. CH I. III. IV. V. VI. VII.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts Climate and rainfall Floods and dry seasons  ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type  MARKETS AND PRICES FOR PRODUCTS. Variety of crops Butter and cotton are chief products Cotton production is going backwards Early guaranteed prices for cotton. The Commonwealth Cotton Bounty Act Area and value of cotton crop Amount of Commonwealth bounties paid.	15 15 15 15 RS. 16 16 16 17 17 17 17	II. III. IV.  V. VI. VIII. IX. X.  O I. II.	Early settlement and roads Need for additional roads and bridges General road policy and expenditure Plant and gangs employed and general standard of work What Board's inspections showed Repair work undertaken forthwith Local Authorities interested Suggested change of Shire headquarters Mount Lookerbie-Monto road v. railway General recommendations re roads.  PERATIONS OF THE AGRICULTURAL BANK Applications for advances approved and refused Other financial institutions may compete with Agricultural Bank  IMMIGRATION SETTLEMENT. Previous reports on immigration settlement	32 32 33 33 33 34 34 34 34 35
I. III. IV. CH I. II. V. V. VI. VII. VIII. IX.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts Climate and rainfall Floods and dry seasons ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type MARKETS AND PRICES FOR PRODUCTS. Variety of crops Butter and cotton are chief products Cotton production is going backwards Early guaranteed prices for cotton. The Commonwealth Cotton Bounty Act Area and value of cotton crop Amount of Commonwealth bounties paid. Is the cotton industry worth establishing? Stabilisation of prices essential	15 15 15 15 RS. 16 16 16 17 17 17 17 18 18	II. III. IV.  V. VI. VIII. IX. X.  O I. II.	Early settlement and roads Need for additional roads and bridges General road policy and expenditure Plant and gangs employed and general standard of work What Board's inspections showed Repair work undertaken forthwith Local Authorities interested Suggested change of Shire headquarters Mount Lookerbie-Monto road v. railway General recommendations re roads.  PERATIONS OF THE AGRICULTURAL BANK Applications for advances approved and refused Other financial institutions may compete with Agricultural Bank  IMMIGRATION SETTLEMENT. Previous reports on immigration settlement Land Administration Board is not the authority	32 32 33 33 33 34 34 34 35 35
I. III. IV. CH I. II. IV. VI. VIII. IX. X.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts Climate and rainfall Floods and dry seasons  ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type  MARKETS AND PRICES FOR PRODUCTS. Variety of crops Butter and cotton are chief products Cotton production is going backwards Early guaranteed prices for cotton. The Commonwealth Cotton Bounty Act Area and value of cotton crop Amount of Commonwealth bounties paid. Is the cotton industry worth establishing? Stabilisation of prices essential Analysis of production costs	15 15 15 15 15 RS. 16 16 16 17 17 17 17 18 18	II. III. IV.  V. VI. VIII. IX. X.  O I. II.	Early settlement and roads Need for additional roads and bridges General road policy and expenditure Plant and gangs employed and general standard of work What Board's inspections showed Repair work undertaken forthwith Local Authorities interested Suggested change of Shire headquarters Mount Lookerbie-Monto road v. railway General recommendations re roads.  PERATIONS OF THE AGRICULTURAL BANK Applications for advances approved and refused Other financial institutions may compete with Agricultural Bank  IMMIGRATION SETTLEMENT. Previous reports on immigration settlement	32 32 33 33 33 34 34 34 35 35
I. III. IV. CH I. II. V. V. VI. VII. VIII. IX.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts Climate and rainfall	15 15 15 15 16 16 16 17 17 17 17 18 18 18	II. III. IV.  V. VI. VIII. IX. X.  O I. II.	Early settlement and roads Need for additional roads and bridges General road policy and expenditure Plant and gangs employed and general standard of work What Board's inspections showed Repair work undertaken forthwith Local Authorities interested Suggested change of Shire headquarters Mount Lookerbie-Monto road v. railway General recommendations re roads.  PERATIONS OF THE AGRICULTURAL BANK Applications for advances approved and refused Other financial institutions may compete with Agricultural Bank IMMIGRATION SETTLEMENT. Previous reports on immigration settlement Land Administration Board is not the authority in charge of migrant settlement	32 32 33 33 33 34 34 34 35 35
I. III. IV. CH I. II. IV. V. VI. VII. IX. X. XI.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts.  Climate and rainfall Floods and dry seasons  ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type  MARKETS AND PRICES FOR PRODUCTS. Variety of crops  Cotton production is going backwards Early guaranteed prices for cotton.  The Commonwealth Cotton Bounty Act Area and value of cotton crop  Amount of Commonwealth bounties paid.  Is the cotton industry worth establishing? Stabilisation of prices essential Analysis of production costs  Comparison of picking costs—Queensland and America	15 15 15 15 15 RS. 16 16 16 17 17 17 17 18 18	II. III. IV.  V. VI. VIII. IX. X.  O I. II.	Early settlement and roads  Need for additional roads and bridges  General road policy and expenditure  Plant and gangs employed and general standard of work  What Board's inspections showed  Repair work undertaken forthwith  Local Authorities interested  Suggested change of Shire headquarters  Mount Lookerbie-Monto road v. railway  General recommendations re roads.  PERATIONS OF THE AGRICULTURAL BANK Applications for advances approved and refused  Other financial institutions may compete with Agricultural Bank  IMMIGRATION SETTLEMENT.  Previous reports on immigration settlement  Land Administration Board is not the authority in charge of migrant settlement  PRICKLY-PEAR LAND.	32 32 33 33 33 34 34 34 35 35
I. III. IV. CH I. II. IV. VI. VIII. IX. X.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts Climate and rainfall Floods and dry seasons  ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type  MARKETS AND PRICES FOR PRODUCTS. Variety of crops Butter and cotton are chief products Cotton production is going backwards Early guaranteed prices for cotton. The Commonwealth Cotton Bounty Act Area and value of cotton crop Amount of Commonwealth bounties paid. Is the cotton industry worth establishing? Stabilisation of prices essential Analysis of production costs Comparison of picking costs—Queensland and America Commonwealth Covernment now considering	15 15 15 15 15 16 16 16 17 17 17 18 18 18 19	II. III. IV.  V. VI. VIII. IX. X.  O I. II.	Early settlement and roads Need for additional roads and bridges General road policy and expenditure Plant and gangs employed and general standard of work What Board's inspections showed Repair work undertaken forthwith Local Authorities interested Suggested change of Shire headquarters Mount Lookerbie-Monto road v. railway General recommendations re roads.  PERATIONS OF THE AGRICULTURAL BANK Applications for advances approved and refused Other financial institutions may compete with Agricultural Bank IMMIGRATION SETTLEMENT. Previous reports on immigration settlement Land Administration Board is not the authority in charge of migrant settlement	32 32 33 33 33 34 34 34 35 35
I. III. IV. CH I. II. IV. V. VI. VII. IX. X. XI.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts.  Climate and rainfall Floods and dry seasons  ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type  MARKETS AND PRICES FOR PRODUCTS. Variety of crops  Cotton production is going backwards Early guaranteed prices for cotton.  The Commonwealth Cotton Bounty Act Area and value of cotton crop  Amount of Commonwealth bounties paid.  Is the cotton industry worth establishing? Stabilisation of prices essential Analysis of production costs  Comparison of picking costs—Queensland and America	15 15 15 15 16 16 16 17 17 17 17 18 18 18	II. III. IV. V. VI. VII. VIII. IX. X. O I. II. II.	Early settlement and roads  Need for additional roads and bridges  General road policy and expenditure  Plant and gangs employed and general standard of work  What Board's inspections showed  Repair work undertaken forthwith  Local Authorities interested  Suggested change of Shire headquarters  Mount Lookerbie-Monto road v. railway  General recommendations re roads.  PERATIONS OF THE AGRICULTURAL BANK  Applications for advances approved and refused  Other financial institutions may compete with Agricultural Bank  IMMIGRATION SETTLEMENT.  Previous reports on immigration settlement  Land Administration Board is not the authority in charge of migrant settlement  PRICKLY-PEAR LAND.  Some of Callide lands are pear-infested	32 32 33 33 33 34 34 34 35 35 36
I. III. IV. CH I. II. IV. V. VI. VII. IX. X. XI.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts Climate and rainfall Floods and dry seasons  ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type  MARKETS AND PRICES FOR PRODUCTS. Variety of crops Butter and cotton are chief products Cotton production is going backwards Early guaranteed prices for cotton. The Commonwealth Cotton Bounty Act Area and value of cotton crop Amount of Commonwealth bounties paid. Is the cotton industry worth establishing? Stabilisation of prices essential Analysis of production costs Comparison of picking costs—Queensland and America Commonwealth Covernment now considering	15 15 15 15 15 16 16 16 17 17 17 18 18 18 19	II. III. IV.  V. VII. VIII. IX. X.  O I. II. II.	Early settlement and roads  Need for additional roads and bridges  General road policy and expenditure  Plant and gangs employed and general standard of work  What Board's inspections showed  Repair work undertaken forthwith  Local Authorities interested  Suggested change of Shire headquarters  Mount Lookerbie-Monto road v. railway  General recommendations re roads.  PERATIONS OF THE AGRICULTURAL BANF  Applications for advances approved and refused  Other financial institutions may compete with Agricultural Bank  IMMIGRATION SETTLEMENT  Previous reports on immigration settlement  Land Administration Board is not the authority in charge of migrant settlement  PRICKLY-PEAR LAND.  Some of Callide lands are pear-infested  All infested lands should be dealt with under the	32 32 33 33 33 34 34 34 34 35 35 36
I. II. IV. CH I. II. IV. VI. VII. VII. XX. XXI. XXII.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts Climate and rainfall Floods and dry seasons  ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type  MARKETS AND PRICES FOR PRODUCTS. Variety of crops Butter and cotton are chief products Cotton production is going backwards Early guaranteed prices for cotton. The Commonwealth Cotton Bounty Act Area and value of cotton crop Amount of Commonwealth bounties paid. Is the cotton industry worth establishing? Stabilisation of prices essential Analysis of production costs Comparison of picking costs—Queensland and America Commonwealth Government now considering action.  GENERAL ADMINISTRATION.	15 15 15 15 15 16 16 16 17 17 17 18 18 18 19 20	II. III. IV. V. VI. VII. VIII. IX. X. O I. II. II.	Early settlement and roads Need for additional roads and bridges General road policy and expenditure Plant and gangs employed and general standard of work What Board's inspections showed Repair work undertaken forthwith Local Authorities interested Suggested change of Shire headquarters Mount Lookerbie-Monto road v. railway General recommendations re roads.  PERATIONS OF THE AGRICULTURAL BANK Applications for advances approved and refused Other financial institutions may compete with Agricultural Bank  IMMIGRATION SETTLEMENT. Previous reports on immigration settlement Land Administration Board is not the authority in charge of migrant settlement  PRICKLY-PEAR LAND. Some of Callide lands are pear-infested All infested lands should be dealt with under the	32 32 33 33 33 34 34 34 34 35 35 36
I. III. IV. CH I. II. IV. V. VI. VII. IX. X. XI.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts Climate and rainfall Floods and dry seasons  ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type  MARKETS AND PRICES FOR PRODUCTS. Variety of crops Butter and cotton are chief products Cotton production is going backwards Early guaranteed prices for cotton. The Commonwealth Cotton Bounty Act Area and value of cotton crop Amount of Commonwealth bounties paid. Is the cotton industry worth establishing? Stabilisation of prices essential Analysis of production costs Comparison of picking costs—Queensland and America Commonwealth Government now considering action.  GENERAL ADMINISTRATION. Matters discussed	15 15 15 15 15 16 16 16 17 17 17 18 18 18 19	II. III. IV. V. VI. VII. VIII. IX. X. O I. II. II.	Early settlement and roads  Need for additional roads and bridges  General road policy and expenditure  Plant and gangs employed and general standard of work  What Board's inspections showed  Repair work undertaken forthwith  Local Authorities interested  Suggested change of Shire headquarters  Mount Lookerbie-Monto road v. railway  General recommendations re roads.  PERATIONS OF THE AGRICULTURAL BANF  Applications for advances approved and refused  Other financial institutions may compete with Agricultural Bank  IMMIGRATION SETTLEMENT  Previous reports on immigration settlement  Land Administration Board is not the authority in charge of migrant settlement  PRICKLY-PEAR LAND.  Some of Callide lands are pear-infested  All infested lands should be dealt with under the	32 32 33 33 33 34 34 34 34 35 35 36
I. II. IV. CH I. II. IV. VI. VII. VII. XX. XXI. XXII.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts Climate and rainfall Floods and dry seasons  ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type  MARKETS AND PRICES FOR PRODUCTS. Variety of crops Butter and cotton are chief products Cotton production is going backwards Early guaranteed prices for cotton. The Commonwealth Cotton Bounty Act Area and value of cotton crop Amount of Commonwealth bounties paid. Is the cotton industry worth establishing? Stabilisation of prices essential Analysis of production costs Comparison of picking costs—Queensland and America Commonwealth Government now considering action.  GENERAL ADMINISTRATION.	15 15 15 15 15 16 16 16 17 17 17 18 18 18 19 20	II. III. V. VI. VII. VIII. II. II. II. I	Early settlement and roads Need for additional roads and bridges General road policy and expenditure Plant and gangs employed and general standard of work What Board's inspections showed Repair work undertaken forthwith Local Authorities interested Suggested change of Shire headquarters Mount Lookerbie-Monto road v. railway General recommendations re roads.  PERATIONS OF THE AGRICULTURAL BANK Applications for advances approved and refused Other financial institutions may compete with Agricultural Bank IMMIGRATION SETTLEMENT. Previous reports on immigration settlement Land Administration Board is not the authority in charge of migrant settlement PRICKLY-PEAR LAND. Some of Callide lands are pear-infested All infested lands should be dealt with under the Prickly-pear Land Acts DEPARTMENTAL ORGANISATION.	32 32 33 33 33 34 34 34 35 35 36 36 37
I. II. III. IV. CH II. III. IV. VI. VII. VII. XII. XII. XI	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts.  Climate and rainfall Floods and dry seasons  ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type  MARKETS AND PRICES FOR PRODUCTS. Variety of crops  Butter and cotton are chief products Cotton production is going backwards Early guaranteed prices for cotton.  The Commonwealth Cotton Bounty Act Area and value of cotton crop  Amount of Commonwealth bounties paid. Is the cotton industry worth establishing? Stabilisation of prices essential Analysis of production costs Comparison of picking costs—Queensland and America Commonwealth Government now considering action.  GENERAL ADMINISTRATION. Matters discussed	15 15 15 15 15 16 16 16 16 17 17 17 17 18 18 18 19 20 20	II. III. IV.  V. VI. VII. IX. X.  O I. II. II.	Early settlement and roads Need for additional roads and bridges General road policy and expenditure Plant and gangs employed and general standard of work What Board's inspections showed Repair work undertaken forthwith Local Authorities interested Suggested change of Shire headquarters Mount Lookerbie-Monto road v. railway General recommendations re roads.  PERATIONS OF THE AGRICULTURAL BANK Applications for advances approved and refused Other financial institutions may compete with Agricultural Bank IMMIGRATION SETTLEMENT. Previous reports on immigration settlement Land Administration Board is not the authority in charge of migrant settlement PRICKLY-PEAR LAND. Some of Callide lands are pear-infested All infested lands should be dealt with under the Prickly-pear Land Acts DEPARTMENTAL ORGANISATION. Administration from outside area is uneconomical	32 32 32 33 33 34 34 34 35 35 36 36 37
I. II. IV. CH I. II. IV. VI. VII. VII. XII. XII. II. II. II. II. II. III. IX. X. XI. XI	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts Climate and rainfall Floods and dry seasons  ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type  MARKETS AND PRICES FOR PRODUCTS. Variety of crops Butter and cotton are chief products Cotton production is going backwards Early guaranteed prices for cotton. The Commonwealth Cotton Bounty Act Area and value of cotton crop Amount of Commonwealth bounties paid. Is the cotton industry worth establishing? Stabilisation of prices essential Analysis of production costs Comparison of picking costs—Queensland and America Commonwealth Government now considering action.  GENERAL ADMINISTRATION. Matters discussed SOUND SETTLEMENT AREAS. Areas should be determined on dairying basis	15 15 15 15 15 16 16 16 17 17 17 17 18 18 18 19 20 20 21	II. III. V. V. VII. VIII. IX. X. O I. II. II. II.	Early settlement and roads Need for additional roads and bridges General road policy and expenditure Plant and gangs employed and general standard of work What Board's inspections showed Repair work undertaken forthwith Local Authorities interested Suggested change of Shire headquarters Mount Lookerbie-Monto road v. railway General recommendations re roads.  PERATIONS OF THE AGRICULTURAL BANK Applications for advances approved and refused Other financial institutions may compete with Agricultural Bank IMMIGRATION SETTLEMENT. Previous reports on immigration settlement Land Administration Board is not the authority in charge of migrant settlement  PRICKLY-PEAR LAND. Some of Callide lands are pear-infested All infested lands should be dealt with under the Prickly-pear Land Acts  DEPARTMENTAL ORGANISATION. Administration from outside area is uneconomical and unwise	32 32 32 33 33 33 34 34 34 35 35 36 37
I. II. III. IV. CH II. IV. VI. VII. VIII. XX. XXI. XXII. II. II. II. II. II.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts Climate and rainfall Floods and dry seasons  ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type  MARKETS AND PRICES FOR PRODUCTS. Variety of crops Butter and cotton are chief products Cotton production is going backwards Early guaranteed prices for cotton. The Commonwealth Cotton Bounty Act Area and value of cotton crop Amount of Commonwealth bounties paid. Is the cotton industry worth establishing? Stabilisation of prices essential Analysis of production costs Comparison of picking costs—Queensland and America Commonwealth Government now considering action .  GENERAL ADMINISTRATION. Matters discussed	15 15 15 15 15 16 16 16 17 17 17 17 18 18 18 19 20 20 21	II. III. V. VI. VII. VIII. II. II. II. I	Early settlement and roads Need for additional roads and bridges General road policy and expenditure Plant and gangs employed and general standard of work What Board's inspections showed Repair work undertaken forthwith Local Authorities interested Suggested change of Shire headquarters Mount Lookerbie-Monto road v. railway General recommendations re roads.  PERATIONS OF THE AGRICULTURAL BANK Applications for advances approved and refused Other financial institutions may compete with Agricultural Bank IMMIGRATION SETTLEMENT. Previous reports on immigration settlement Land Administration Board is not the authority in charge of migrant settlement PRICKLY-PEAR LAND. Some of Callide lands are pear-infested All infested lands should be dealt with under the Prickly-pear Land Acts DEPARTMENTAL ORGANISATION. Administration from outside area is uneconomical and unwise Suggested rearrangements	32 32 32 33 33 34 34 34 35 35 36 36 37 37 37 37
I. II. III. III. III. III. III. III. I	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts Climate and rainfall Floods and dry seasons  ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type  MARKETS AND PRICES FOR PRODUCTS. Variety of crops Butter and cotton are chief products Cotton production is going backwards Early guaranteed prices for cotton. The Commonwealth Cotton Bounty Act Area and value of cotton crop Amount of Commonwealth bounties paid. Is the cotton industry worth establishing? Stabilisation of prices essential Analysis of production costs Comparison of picking costs—Queensland and America Commonwealth Government now considering action.  GENERAL ADMINISTRATION. Matters discussed  SOUND SETTLEMENT AREAS. Areas should be determined on dairying basis Many of existing areas are too small The factor of family labour	15 15 15 15 15 16 16 16 16 17 17 17 17 18 18 18 19 20 20 21	II. III. V. V. VII. VIII. IX. X. O I. II. II. II.	Early settlement and roads Need for additional roads and bridges General road policy and expenditure Plant and gangs employed and general standard of work What Board's inspections showed Repair work undertaken forthwith Local Authorities interested Suggested change of Shire headquarters Mount Lookerbie-Monto road v. railway General recommendations re roads.  PERATIONS OF THE AGRICULTURAL BANK Applications for advances approved and refused Other financial institutions may compete with Agricultural Bank IMMIGRATION SETTLEMENT. Previous reports on immigration settlement Land Administration Board is not the authority in charge of migrant settlement PRICKLY-PEAR LAND. Some of Callide lands are pear-infested All infested lands should be dealt with under the Prickly-pear Land Acts DEPARTMENTAL ORGANISATION. Administration from outside area is uneconomical and unwise Suggested rearrangements Detailed recommendations made direct to Public	32 32 33 33 33 34 34 34 34 34 35 35 36 36 37 37 37 37 37
I. II. III. IV. CH II. IV. VI. VII. VIII. XX. XXI. XXII. II. II. II. II. II.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts.  Climate and rainfall Floods and dry seasons  ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type  MARKETS AND PRICES FOR PRODUCTS. Variety of crops  Butter and cotton are chief products Cotton production is going backwards Early guaranteed prices for cotton.  The Commonwealth Cotton Bounty Act Area and value of cotton crop  Amount of Commonwealth bounties paid. Is the cotton industry worth establishing? Stabilisation of prices essential Analysis of production costs Comparison of picking costs—Queensland and America Commonwealth Government now considering action.  GENERAL ADMINISTRATION. Matters discussed  SOUND SETTLEMENT AREAS. Areas should be determined on dairying basis Many of existing areas are too small The factor of family labour A "forty-five cow standard" recommended	15 15 15 15 15 16 16 16 16 17 17 17 17 18 18 18 19 20 20 21 21 21 22 22	II. III. V. V. VII. VIII. IX. O I. II. II. II. II.	Early settlement and roads Need for additional roads and bridges General road policy and expenditure Plant and gangs employed and general standard of work What Board's inspections showed Repair work undertaken forthwith Local Authorities interested Suggested change of Shire headquarters Mount Lookerbie-Monto road v. railway General recommendations re roads.  PERATIONS OF THE AGRICULTURAL BANK Applications for advances approved and refused Other financial institutions may compete with Agricultural Bank  IMMIGRATION SETTLEMENT. Previous reports on immigration settlement Land Administration Board is not the authority in charge of migrant settlement  PRICKLY-PEAR LAND. Some of Callide lands are pear-infested All infested lands should be dealt with under the Prickly-pear Land Acts  DEPARTMENTAL ORGANISATION. Administration from outside area is uneconomical and unwise Suggested rearrangements Detailed recommendations made direct to Public Service Commissioner	32 32 32 33 33 33 34 34 34 34 35 35 36 36 37 37 37 37 37 37
I. II. III. III. III. III. III. III. I	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts Climate and rainfall Floods and dry seasons  ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type  MARKETS AND PRICES FOR PRODUCTS. Variety of crops Butter and cotton are chief products Cotton production is going backwards Early guaranteed prices for cotton. The Commonwealth Cotton Bounty Act Area and value of cotton crop Amount of Commonwealth bounties paid. Is the cotton industry worth establishing? Stabilisation of prices essential Analysis of production costs Comparison of picking costs—Queensland and America Commonwealth Government now considering action.  GENERAL ADMINISTRATION. Matters discussed  SOUND SETTLEMENT AREAS. Areas should be determined on dairying basis Many of existing areas are too small The factor of family labour	15 15 15 15 15 16 16 16 16 17 17 17 17 18 18 18 19 20 20 21	II. III. V. V. VII. VIII. IX. O I. II. II. II. II.	Early settlement and roads Need for additional roads and bridges General road policy and expenditure Plant and gangs employed and general standard of work What Board's inspections showed Repair work undertaken forthwith Local Authorities interested Suggested change of Shire headquarters Mount Lookerbie-Monto road v. railway General recommendations re roads.  PERATIONS OF THE AGRICULTURAL BANK Applications for advances approved and refused Other financial institutions may compete with Agricultural Bank IMMIGRATION SETTLEMENT. Previous reports on immigration settlement Land Administration Board is not the authority in charge of migrant settlement PRICKLY-PEAR LAND. Some of Callide lands are pear-infested All infested lands should be dealt with under the Prickly-pear Land Acts DEPARTMENTAL ORGANISATION. Administration from outside area is uneconomical and unwise Suggested rearrangements Detailed recommendations made direct to Public	32 32 32 33 33 33 34 34 34 35 35 36 36 37
I. II. IV. CH I. IV. VII. IX. XII. XII. II. III. III.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts Climate and rainfall Floods and dry seasons  ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type  MARKETS AND PRICES FOR PRODUCTS. Variety of crops  Butter and cotton are chief products Cotton production is going backwards Early guaranteed prices for cotton. The Commonwealth Cotton Bounty Act Area and value of cotton crop Amount of Commonwealth bounties paid. Is the cotton industry worth establishing? Stabilisation of prices essential Analysis of production costs Comparison of picking costs—Queensland and America Commonwealth Government now considering action.  GENERAL ADMINISTRATION. Matters discussed  SOUND SETTLEMENT AREAS. Areas should be determined on dairying basis Many of existing areas are too small The factor of family labour  "forty-five cow standard" recommended Areas required on new standard	15 15 15 15 15 16 16 16 16 17 17 17 17 18 18 18 19 20 20 21 21 21 22 22	II. III. V. V. VII. VIII. IX. X. O I. II. II. II. II. III. II	Early settlement and roads Need for additional roads and bridges General road policy and expenditure Plant and gangs employed and general standard of work What Board's inspections showed Repair work undertaken forthwith Local Authorities interested Suggested change of Shire headquarters Mount Lookerbie-Monto road v. railway General recommendations re roads.  PERATIONS OF THE AGRICULTURAL BANK Applications for advances approved and refused Other financial institutions may compete with Agricultural Bank  IMMIGRATION SETTLEMENT. Previous reports on immigration settlement Land Administration Board is not the authority in charge of migrant settlement  PRICKLY-PEAR LAND. Some of Callide lands are pear-infested All infested lands should be dealt with under the Prickly-pear Land Acts  DEPARTMENTAL ORGANISATION. Administration from outside area is uneconomical and unwise Suggested rearrangements Detailed recommendations made direct to Public Service Commissioner The question of accommodation for officers	32 32 32 33 33 33 34 34 34 34 35 35 36 36 37 37 37 37 37 37
I. II. IV. V. VI. XII. II. II. III. IV. V. V. VI. VII. VI	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts Climate and rainfall	15 15 15 15 15 16 16 16 16 17 17 17 17 18 18 18 19 20 20 21 21 22 22 22 22 22	II. III. V. V. VII. VIII. IX. X. O I. II. II. II. II. III. II	Early settlement and roads Need for additional roads and bridges General road policy and expenditure Plant and gangs employed and general standard of work What Board's inspections showed Repair work undertaken forthwith Local Authorities interested Suggested change of Shire headquarters Mount Lookerbie-Monto road v. railway General recommendations re roads.  PERATIONS OF THE AGRICULTURAL BANK Applications for advances approved and refused Other financial institutions may compete with Agricultural Bank  IMMIGRATION SETTLEMENT. Previous reports on immigration settlement Land Administration Board is not the authority in charge of migrant settlement  PRICKLY-PEAR LAND. Some of Callide lands are pear-infested All infested lands should be dealt with under the Prickly-pear Land Acts  DEPARTMENTAL ORGANISATION. Administration from outside area is uneconomical and unwise Suggested rearrangements Detailed recommendations made direct to Public Service Commissioner	32 32 32 33 33 33 34 34 34 34 35 35 36 36 37 37 37 37 37 37
I. II. IV. CH I. IV. VII. IX. XII. XII. II. III. III.	UALITY AND SUITABLENESS OF THE LAN AND CLIMATE.  Land quite suitable for closer settlement Prospects of districts are favourable compared with other closer settlement districts Climate and rainfall Floods and dry seasons  ARACTER AND SUITABLENESS OF SETTLE Settlers are a good type  MARKETS AND PRICES FOR PRODUCTS. Variety of crops  Butter and cotton are chief products Cotton production is going backwards Early guaranteed prices for cotton. The Commonwealth Cotton Bounty Act Area and value of cotton crop Amount of Commonwealth bounties paid. Is the cotton industry worth establishing? Stabilisation of prices essential Analysis of production costs Comparison of picking costs—Queensland and America Commonwealth Government now considering action.  GENERAL ADMINISTRATION. Matters discussed  SOUND SETTLEMENT AREAS. Areas should be determined on dairying basis Many of existing areas are too small The factor of family labour  "forty-five cow standard" recommended Areas required on new standard	15 15 15 15 15 16 16 16 17 17 17 17 18 18 18 19 20 20 21 21 22 22 22 22	II. III. IV. II. III. III. IV.	Early settlement and roads Need for additional roads and bridges General road policy and expenditure Plant and gangs employed and general standard of work What Board's inspections showed Repair work undertaken forthwith Local Authorities interested Suggested change of Shire headquarters Mount Lookerbie-Monto road v. railway General recommendations re roads.  PERATIONS OF THE AGRICULTURAL BANK Applications for advances approved and refused Other financial institutions may compete with Agricultural Bank  IMMIGRATION SETTLEMENT. Previous reports on immigration settlement Land Administration Board is not the authority in charge of migrant settlement  PRICKLY-PEAR LAND. Some of Callide lands are pear-infested All infested lands should be dealt with under the Prickly-pear Land Acts  DEPARTMENTAL ORGANISATION. Administration from outside area is uneconomical and unwise Suggested rearrangements Detailed recommendations made direct to Public Service Commissioner The question of accommodation for officers	32 32 32 33 33 33 34 34 34 35 35 36 36 37 37 37 37 38



## REPORT AND RECOMMENDATIONS ON THE UPPER BURNETT AND CALLIDE VALLEY LANDS.

Being a Report and Recommendations by the Land Administration Board following on an Economic Investigation made by the Board of the Upper Burnett and Callide Valley Land Settlement Scheme, and of the Operations of "The Upper Burnett and Callide Land Settlement Act of 1923."

TO THE HONOURABLE THE SECRETARY FOR PUBLIC LANDS.

Office of the Land Administration Board, Brisbane, 29th May, 1929.

We have to advise that we have made a careful investigation of the Upper Burnett and Callide Valley Settlement Scheme, and now have the honour to submit the following Report and Recommendations:-

#### GENESIS OF INQUIRY.

The Land Administration Board took office on the 1st February, I.-1928. It was appointed mainly for the purpose of administering "The Board. Land Acts Amendment Act of 1927," which dealt mostly with grazing lands, and which was designed to assist the Sheep Grazing Industry to overcome the effects of the drought and economic difficulties with which the industry was faced. The first duty of the Board, therefore, lay in grazing areas, but other important matters were noted for attention as opportunity offered. Amongst these was the Upper Burnett and Callide Valley Land Settlement Scheme.

This settlement scheme is the most ambitious land settlement II .project in Queensland's history, and, as originally conceived, was intended to provide farms for some thousands of settlers who would engage in Burnett mixed farming. When the Board was appointed, the scheme had been in operation for about four years; the whole of the first and second sections of the lands had been made available for selection; the third section had not been dealt with. In these circumstances the Board felt the need of carefully investigating the whole project to make sure that the foundations of the settlement were soundly laid before releasing more land for selection.

Need for

The Upper Burnett lands are comprised within the Gayndah Land III. Agent's District, and the Callide Valley Lands within the Rockhampton District. Jurisdiction over the lands, therefore, was divided between the Land Commissioners at Gayndah and Rockhampton respectively. In order to secure co-ordination in all field work and to harmonise the general administration of the settlement, the late Government, in April 1928, on the recommendation of the Board, appointed a Field Superintendent with jurisdiction over the whole area, and directly responsible to the Board at Brisbane.

Early administrative reform. IV.— Personal investigation by Board.

Having completed the more urgent adjustments of Grazing Selection tenures in terms of the 1927 Land Act, the Board, in February last, decided to proceed to the Burnett and to personally investigate the economic position of the settlement, in order to lay down definite principles of administration for the future.

Before reporting on this investigation it will be necessary to give a brief history of the settlement.

## HISTORY OF SETTLEMENT.

Locality of

The Upper Burnett and Callide Valley lands extend from near Eidsvold on the south to near Rannes on the north, a distance of about 120 miles, and have an average width of about 40 miles. Although termed a "Valley," the area has an elevation varying from 800 to 1,700 feet.

The accompanying map shows the situation of the lands and the railways by which they are served. A map on a larger scale, showing the features of the country in greater detail and also the land selected and the land still available for settlement, is attached as Appendix G.

II.— Character of country. The country embraces all classes of land from rich agricultural soils contained in many of the creek flats to third class grazing land, comprising coarsely grassed mountainous country. The average rainfall is about 29 inches.

The classification of the land made by Staff Surveyors, before the settlement scheme was commenced, was as follows:—

	AGRIC	ULTURAL.	GRAZING.			
	First Class.	Second Class.	First Class.	Second Class		
	Acres.	Acres.	Acres.	Acres.		
Northern Burnett	186,000	400,000	498,000	336,000		
Callide	104,000	391,000	90,000	488,000		
Totals	290,000	791,000	588,000	824,000		

Much of the land classified as first class "grazing" land is eminently suited for dairying, as it contains many rich arable pockets. There are considerable belts of softwood and brigalow scrubs.

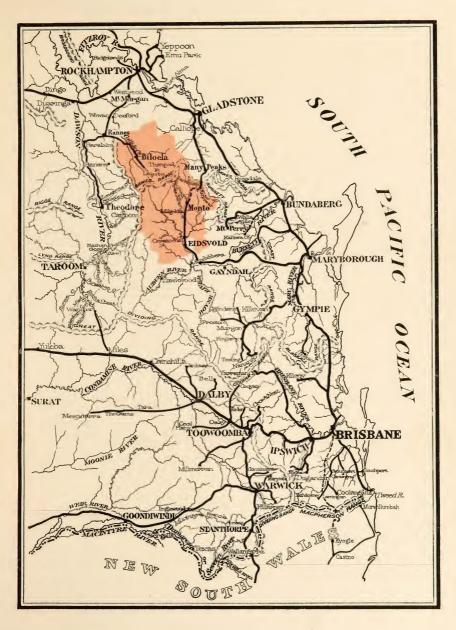
Altogether the area may be regarded as very well adapted for a successful closer settlement scheme.

III.—
Previous occupants of the land.

Before the advent of the settlement scheme the lands comprised in the Upper Burnett and Callide Valley were used almost solely for grazing and were mostly in the occupation of grazing selectors and pastoral lessees.

At the time of compulsory resumption the number of occupants was 133, and the largest individual holding was 168,960 acres in area.

## MAP OF THE UPPER BURNETT AND CALLIDE VALLEY LANDS.





The total area in respect of which notice of resumption was given, IV.—
and on which compensation was fixed by the Land Appeal Court, was:—

Access

Access

Access

The total area in respect of which notice of resumption was given, IV.—

Resumptions for closer settlement,

				Acres.
33 Freeholds	 	 	 	31,563
168 Grazing Selections	 	 	 	946,579
1 Agricultural Farm	 	 	 	1,280
5 Prickly-pear Selections	 	 	 	-21,623
6 Pastoral Leases	 	 	 	261,120
			-	
213			1	,262,165
-				

Totals

Eventually resumptions were cancelled (or are in process of cancellation) in the case of 32 holdings, mostly grazing land, comprising an area of 113,275 acres, so that the holdings actually resumed number 181, comprising an area of 1,148,890 acres.

The area comprised in this settlement scheme is generally spoken v.—
of as about 3,000,000 acres. The exact figures are as follows:—

Area comprised in

Compensation for the land resumed actually paid over by the VI.—

Crown was:—

Leaseholds ... ... ... ... £173.263

New railways were needed in order to open up this land. Without railway communication the Upper Burnett could not have been used for any industry other than grazing, and closer settlement would have been out of the question. For years prior to Parliament authorising the building of the railways, there had been great rivalry between Rockhampton, Gladstone, and Maryborough as to which branch railway should be extended to the country. Each centre was anxious to obtain the trade that was certain to flow from this rich area, and railways from each centre had already been constructed to the fringe of the proposed settlement. Existing railways reached from Rockhampton to Rannes, on the north, from Gladstone to Many Peaks on the east, and from Maryborough to Mundubbera on the south of the area.

(b) Railway construction.

settlement

scheme.

(a) Land resumptions

Eventually Parliament authorised the extension of all three of these railways to converge on Monto, a new township in the centre of the area.

Monto lies 103 miles from Gladstone, 179 miles from Maryborough, and 172 miles from Rockhampton. Of the three railways, that connecting with Gladstone, although the shortest, was the most costly and difficult to construct, owing to the mountainous country (the Dawes Range) through which it passes. This railway has been completed to Dalkiel, and is at present under construction to Waratah, eight miles north-east of Monto. The Maryborough-Mundubbera extension is completed and open to traffic to Monto. The Rockhampton-Rannes extension is open to Thangool—63 miles north of Monto. Rails have been laid for a few miles beyond this point, and earthwork constructed still further to Mount Lookerbie, but all work has been discontinued.

Figures supplied by the Commissioner for Railways show that the cost of the three railways to 31st March, 1929, is as follows:—

		£1,715,697
Rannes towards Monto (construction discontinued)	 	374,374
Many Peaks towards Monto (still under construction)		779,538
Mundubbera to Monto (complete)		£561,785

(c) Roads and bridges

As part of the settlement scheme, the Department of Public Lands undertook to construct, free of cost to the Local Authorities, the necessary roads and bridges to give pioneer access to each holding. This work was commenced in 1923 and is still proceeding. After construction, the roads and bridges are handed over to the Local Authorities, who are responsible for their future maintenance.

In the early days of this work the Department did not possess adequate machinery, and many of the roads were indifferently formed. The present standard of work, which is done with the aid of modern plant, is, however, quite satisfactory, and settlers are being provided with reasonably good roads. The bridges throughout the area, constructed by the Lands Department, are first class structures.

Altogether 634 miles of road and five bridges and causeways have been constructed. The total expenditure on these works to 31st March, 1929, amounted to £78,523 12s. 7d. Detailed particulars are given later in a separate section of this Report dealing with Roads and Bridges.

VII.— Water facilities and Agricultural Bank advances. Expenditure of Government Funds has also been incurred in the provision of water facilities for settlers and in advances by the Agricultural Bank for the assistance of settlers. Both these matters are referred to, in detail, in later sections of the Report. Expenditure to 31st March, 1929, under these heads, is as follows:—

Water facilities . . . . . . . £73,760 Agricultural Bank advances . . . . . . £88,131

#### NEW ROADS ON THE SETTLEMENT.



Section of road between Monto and Splinter Creek, Upper Burnett.



Another view of road, Monto to Splinter Creek, Upper Burnett.



Road through scrub country near Thangool, Callide Valley.

"As part of the settlement scheme, the Department undertook to construct, free of cost to the Local Authorities, the necessary roads and bridges to give pioneer access to each holding. The present standard of work which is done with the aid of modern plant is quite satisfactory, and settlers are being provided with reasonably good roads. The bridges throughout the area, constructed by the Lands Department, are first-class structures."—Page 8.

Face Page 8.]

This expenditure, however, stands in quite a different category to the other expenditure quoted above. In each instance the money advanced is in the nature of a loan to the settler, and ordinarily should be repaid by him with interest over a period of years. Excepting, therefore, the amount spent on "duffer" bores, or otherwise written off or lost in the provision of water facilities, and the amount lost through default of the tenants in observing the covenants of their Agricultural Bank mortgages, the above expenditure will be repaid to the Government. It should not, therefore, be debited to the initial cost of the settlement. Reference to the section of the Report dealing with water facilities will show, however, that considerable losses will be incurred under this head.

Summarising the expenditure that may fairly be debited to the VIII. initial cost of the settlement, we have the following:-

Summary of special expenditure.

				£
Compensation for Land Resumptions		 		233,044
Construction of Railways				1,715,697
Construction of Roads and Bridges	 	 		78,523
Total	 	 	£	2,027,264

Expenditure on railways, roads, and bridges is still continuing.

It will be seen from the above figures that modern settlement ix. schemes are costly undertakings. If railways have to be pushed out Costly ahead of settlement, if roads and bridges have to be constructed, and other modern settlement Governmental aid granted to settlers, the burden of all this expenditure schemes. must, until the new settlement becomes productive, be carried by the general community.

In the present instance the expenditure amounts to £2,027,264. For that sum 1,108 persons have already been settled on the area, and the potential settlement capacity of the remaining land, on sound lines, is about 400 settlers. By the time the scheme is completed, therefore, considering that further expenditure has yet to be made on railways and roads, the cost will not be less than £1,500 per settler.

Some surprise may be occasioned by our estimate of 1,500 settlers for the whole area, because of the fact that official estimates in the past have exceeded this figure. However, the facts and reasons on which our estimate is based are fully disclosed in the following pages. may be said the reduced number is mainly due to the fact that larger areas than were originally contemplated are needed to effect sound and progressive settlement.

The large expenditure that has been incurred illustrates, in a striking way, the difference between old and new settlement schemes.

The old method and the new.

In the early days of settlement a family would settle on the land, produce almost all its own requirements, and earn in actual money a very small income, which would be expended on articles which the farm could not produce. To live, rather than to earn or produce for the use

of others, was the dominating purpose. Now all this has changed. The modern view is that, unless the income received from the products of the farm can approximate the money that would be earned from similar energies elsewhere, there is no inducement to settle on the land.

In former days communities established themselves by years of arduous pioneering work with little outside assistance, and railways were provided only after the settlers had demonstrated the wealth productivity of their lands, and their capacity to provide the railways with considerable business. Now the position is reversed; public expenditure goes first and settlement follows. Such public expenditure must necessarily be unproductive for a few years.

XI.—
Settlement
measures up
to standard
prescribed
by British
Economic
Mission.

In dealing with settlement schemes the British Economic Mission, in its Report dated 7th January, 1929 (page 6), pointed out that such schemes, financed out of loan moneys, should be self supporting within a reasonable measure of time. The members of the Mission went on to say, "By this we mean that within such measure of time they should, either directly, or indirectly through the increased taxable capacity of the community and the enhanced value and price of Government-owned land attributable to the development schemes, provide at least their own working costs, interest on the loan capital invested in them, and a sinking fund sufficient to provide for its repayment when it falls due."

Judged on that basis, the Upper Burnett and Callide Valley Settlement Scheme may be regarded as a sound State investment. We think that, indirectly, it will return interest and redemption manifold.

XII — The scheme as measured in money In the first place, on the lowest estimate that is possible, the land has increased in value considerably more than the total cost of the railways and roads that have developed it. We are not, however, impressed by this factor because the State will not receive this increased value. The land is settled on the Perpetual Leasehold system, the annual rent payable being only  $1\frac{1}{2}$  per cent. of its capital value. The Lands revenue from the settlement at the present time amounts to £15,934 per annum, and although with increased settlement this revenue will be augmented, it will not be substantially increased owing to the fact that we are making a number of recommendations for adjustments in rents.

Even if the Government allow settlers to convert to freehold, the purchasing price of the land, free from interest, will be spread over a period of from twenty to thirty years, and consequently there will not be much material gain to the Government from a revenue standpoint.

Much more important, in our opinion, than increased land values, is the wealth productivity of the land. When fully settled on the lines of our recommendations, we estimate the settlement will comprise 1,500 mixed farmers, dairymen, and graziers, and the annual production from the settlement will then probably exceed in value one million pounds sterling.

All the State expenditure, therefore, that has been incurred in the scheme must be considered in relation to the many advantages to the community of this increased annual production.

#### LAND ADMINISTRATION BOARD AT WORK.

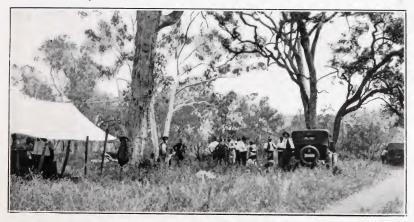
Proceedings everywhere marked by absence of formality.



Board sitting in Railway Waiting Room at Abercorn, and group of selectors waiting to present their cases.



Board taking evidence in blacksmith's shed, Mulgaldie.



Board hearing selectors under tent fly at Waratah.

"The individual witnesses were examined in private. . . ."
"We have found, from experience, that though an economic investigation conducted in public may be picturesque, it is of very little real value. Witnesses will not disclose, in public, those intimate financial details of their operations, or bedrock facts, witnow which any attempt at an economic investigation becomes futile. Our aim, therefore, was to set the witnesses at case, assure them that their evidence would be regarded as confidential, and then closely examine them on all material matters. In the result the witnesses gave us all the information we desired."—Page 12.

Face Page 10.]

But there is another and still more important way in which the matter may be measured—in persons rather than in money. Amongst The scheme the settlers many are to be found with large families. A number of the in witnesses who gave evidence before us had families ranging from six to ten children. Allowing, however, for average families of three children, the Upper Burnett and Callide lands will directly support 7,500 people.

as measured population.

Now for every £1,000,000 of wealth produced from the land, it may be said, as a wide generalisation, that about one-third will find its way into the pockets of the producers, while two-thirds, as costs of production and general expenses, will be distributed amongst the community. Therefore, besides the 7,500 people maintained on the land, the distributed wealth will support a further 15,000 people, making 22,500 people all told.

Such is the value of this settlement scheme to Queensland.

Much is heard from time to time of progressive settlement schemes XIV.in Western Australia. It is surprising how ready some people are to make comparisons to the detriment of Queensland, while lacking even elementary knowledge of the subject being dealt with. For the information of those who like comparisons we reproduce in Appendix A an analysis of group settlements in Western Australia which appeared in the London Times of the 14th September last. It shows that expenditure on group settlements in that State has exceeded £4,000 per head, and that, even after such expenditure, the prospects of the settlers are still uncertain.

No comment by us is needed, except to say that we have verified this information from official sources.

Having discussed the matter in this general way, we will now proceed to give particulars of our Inquiry and to state in detail the conclusions we have reached regarding the future administration of the Upper Burnett and Callide Valley settlement.

#### PROCEEDINGS OF BOARD.

The Board opened its inquiry at Mundubbera on Thursday, 28th I.-February last. Subsequently sittings were held at Eidsvold on the 2nd March, at Abercorn 4th March, Mulgeldie 5th, Monto 6th and 7th, Kalpowar 8th, Waratah 9th, Biloela 11th and 12th, Thangool 13th, Jambin 14th, Goovigen 15th March, and later at Brisbane.

Sittings held.

In addition to hearing evidence, numerous inspections of holdings, vacant lands, and roads were made.

Altogether 339 witnesses were examined. Their notes of evidence, II. covering 664 pages of typewritten matter, have been bound into a separate Witnesses examined. volume and forwarded to the Hon. the Minister for Lands for his information. All witnesses were given an assurance that the financial details of their evidence would be regarded as confidential.

An alphabetical list of the witnesses is given in Appendix C.

In attending sittings and in making inspections the Board travelled III. 1.143 miles by motor-car.

Miles travelled. Proceedings in private.

The individual witnesses were examined in private. If the witnesses desired anyone else to be present, their wishes were respected; otherwise the Inquiry was not open to the public.

We have found, from experience, that though an economic investigation conducted in public may be picturesque, it is of very little real value. Witnesses will not disclose, in public, those intimate financial details of their operations, or bedrock facts, without which any attempt at an economic investigation becomes futile. Our aim, therefore, was to set the witnesses at ease, assure them that their evidence would be regarded as confidential, and then closely examine them on all material matters. In the result the witnesses gave us all the information we desired.

#### THE MUNDUBBERA SETTLEMENT.

I.—
Relevancy
of the
Mundubbera
lands.

As already stated, our Inquiry opened at Mundubbera. This district is situated near the Upper Burnett district, and comprises a belt of forest and scrub country somewhat similar to the country of the Upper Burnett, and of approximately equal rainfall. The good lands in the latter area are, however, much more extensive than those of the Mundubbera district, which also has the disadvantage of pear infestation.

The Mundubbera lands were settled in a virgin condition about fifteen years ago without special Governmental aid other than the provision of pioneer access. The settlement is now well established and is prosperous. It seemed to us, therefore, that if the Mundubbera settlers would take us into their confidence, tell us the difficulties they had encountered, and the obstacles they had overcome, and give us details of the working of their holdings and of their financial position, our task in forming an accurate judgment on the soundness of the Upper Burnett project would be very much lightened. That is why the Inquiry was opened at Mundubbera.

II.—
Acknowledgment of
public
service
rendered
by witnesses.

Twelve witnesses submitted themselves for examination in response to general invitations issued by the Board. A number of these witnesses were original settlers in the Mundubbera and adjacent districts. They were in occupation of different classes of country, and some came considerable distances to be present at the Inquiry. Their names are include/ in Appendix C.

We wish to acknowledge the sense of public service which prompted the attendance of these settlers to assist the Board. The settlers themselves had nothing to gain. The terms and conditions of their lands were not under review. They could hope for nothing from the Inquiry. Yet with obvious goodwill towards the administration they readily came forward to give the Board the benefit of their knowledge and experience.

Such disinterested co-operation is gratifying and worthy of acknowledgment.

III.—
Facts
established
by
Mundubbera
evidence.

The evidence at Mundubbera, and our inspections and inquiries in the locality, establish the following:—

(1) When originally settled, the area around Mundubbera allotted to each selector was too small. Most of the settlers started out without any monetary capital whatever and

## THE GROWTH OF MUNDUBBERA.

Successful land settlement and industrial progress are closely allied.



The main street, Mundubbera, 1914.



Mundubbera to-day.



Mundubbera Butter Factory.

"What Mundubbera has done, several centres throughout the Upper Burnett and Callide Valley may do better."—Page 14.

Face Page 12.]

many of them failed to succeed. Gradually, however, the size of holdings increased by aggregation, and now the settlement is established on a sound and prosperous basis. The selections are held as Agricultural Farms, on the freeholding system, as distinct from Perpetual Leases.

The original subdivision of the land was in areas of from 160 acres upwards. Taking an average it may be said that the areas should have been about doubled. A good living can be made from 300 acres of first-class scrub land, or from 500 acres of good forest land, with, say, 50 acres to 100 acres of cultivable land thereon.

Most of the successful farmers to-day hold two or three of the original blocks.

- (2) The original purchasing prices placed on the land by the Crown were somewhat high. They have, however, since been adjusted and reduced by the Prickly-pear Land Commission, under whose jurisdiction the land now is, and settlers seem quite satisfied and contented with the treatment they have received.
- (3) In the Mundubbera District, both the scrub and forest land is good sound, healthy, dairying country. There is also a considerable extent of first-class agricultural land.
- (4) In the case of scrub dairy farms it is desirable, and in the case of forest farms essential, that cultivation be maintained for feeding the milking cows in dry times and during the winter months, when the grasses have lost their succulence. Artificial grasses on scrub country, of course, keep succulent longer than natural grasses on forest land.
- (5) To get the best results, a dairyman on forest country should have under cultivation an area of about one acre per milking cow. The crops grown in the district for cow feed include lucerne, cowpea, maize, soudan grass, and imphee.

Instead of cutting and chaffing the feed, many farmers merely graze their milkers on the cultivation for a short time daily, which, of course, saves labour, but a larger area of cultivation is required.

- (6) From a dairying standpoint, the district compares favourably with the best dairying districts in the State. Witnesses who appeared before us had previous experience on the land, on the Downs, at Nerang, Lowood, Laidley, and Murgon. The concensus of opinion was that, with the aid of cultivation, a dairy herd in the Mundubbera district would return profits as good as in any of the other districts mentioned.
- (7) A few high-class pedigree milking herds are maintained in the district. In particular, the Illawarra stud of Messrs. Spoor Bros. has won many prizes at Brisbane Shows and other Agricultural Shows throughout Queensland.

- (8) The returns from dairying vary according to the grade of cow and the seasons. The highest return from ordinary dairy cows mentioned in evidence was 35s. per cow per month; the lowest was 12s. 6d. per cow per month. From the evidence we are satisfied that ordinary good grade dairy cows, with the aid of cultivated fodders, will return about £1 per cow per month throughout the year; that is a dairy farmer maintaining an average milking herd of 30 cows will receive a gross return from cream of about £360 per annum. The capital invested in such dairy farm, including dry cows and young stock, dwelling, improvements, and plant, would be about £1,750, exclusive of the value of the land.
- (9) A large co-operative butter factory is established at Mundubbera.

During the twelve months, 1st January, 1928, to 31st December, 1928, 942 tons of butter were manufactured at this factory. The total amount paid to suppliers for the twelve months was £134,703. Of this, the largest monthly amount was £16,966 for the month of January, and the smallest £5,883 for the month of June last. The average number of suppliers was 558. The returns, therefore, equal an average of £242 per supplier per annum. This return would be higher if confined to ordinary dairymen, excluding those suppliers who run only a few cows as a side line. Details are given in Appendix B.

- (10) The chief crops grown in the district for market are cotton, maize, and broom millet.
- (11) The railway returns for twelve months, 1st January, 1928, to 31st December, 1928, show that 1,885 tons of produce despatched from Mundubbera, while the freight collected by the Railway Department on goods and live stock despatched amounted to £7,487. The inwards freight amounted to £8,559 for the same period.

IV.---What Mundubbera has done, the Upper Burnett may do better.

land

settlement.

It will be clear from the above facts and figures that Mundubbera is now a prosperous mixed farming area. All qualities making for success in this district are present in greater measure in the lands of the Upper What Mundubbera has done, therefore, Burnett and Callide Valley. several centres throughout the Upper Burnett and Callide Valley may do better.

## UPPER BURNETT AND CALLIDE VALLEY LANDS.

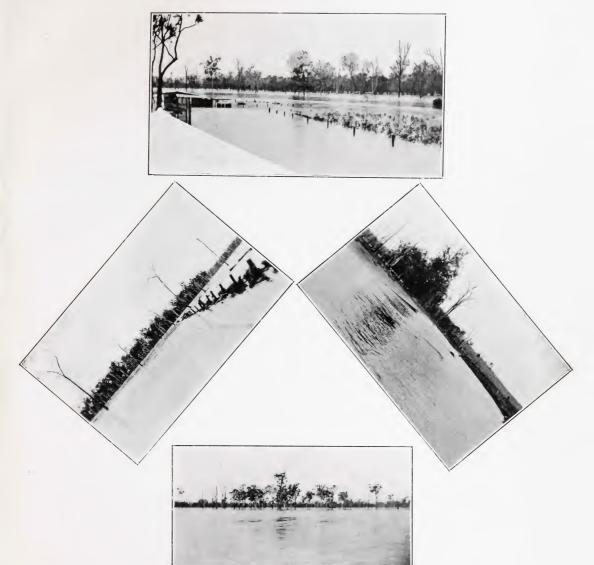
The four chief factors which determine the success or otherwise of a I.--Four settlement scheme are:determining (1) Quality and suitableness of the land and climate. factors in

- (2) Character and suitableness of the settlers.
- (3) Markets for the products.
- (4) General administration.

We will deal with each of these matters in turn.

## THE MENACE OF FLOODS ON LOW-LYING LANDS.

Many of the flats throughout the Upper Burnett and Callide Valley are inundated for short periods by flood waters after heavy rains. These photos, were taken in different parts of the settlement.





"Generally, settlers have much more to fear from dry conditions than from excessive rains, unless they take steps to protect themselves by storing fodder. In average years the great bulk of the rich agricultural land in the district may be cultivated without losses by flood."—Page 16.

Face Page 14.]

#### QUALITY AND SUITABLENESS OF THE LAND AND CLIMATE.

We have already expressed the opinion that the Upper Burnett I .and Callide Valley lands are eminently adapted for a successful closer Land quite suitable for settlement scheme.

settlement.

Rich belts of country exist which bear comparison with anything to be found in other parts of Queensland, and, if closer settlement could not succeed on such an area, the outlook for increased primary production in Queensland would be dismal indeed.

But it must be remembered that the country is, or a few years ago II.was, largely virgin land, and, therefore, many years of concentrated effort Prospects of will be needed to put this settlement in the same developed and established favourable condition as the older closer settled districts of the State, such as for instance the South Coast, the Brisbane Valley, or the Wondai-Kingarov areas.

closer settlement districts.

The progress that has already been made, and the towns that have been established throughout the area, speak well for the energy and enterprise of the people, and, in the course of time, there is no reason to doubt that this great new district will compare favourably in prosperity with the other districts mentioned.

The climate of the settlement is invigorating and healthy. Sheltered III\_ from the humidity of the coast by the Burnett and Dawes Ranges, the Climate and winds that come in from the Pacific are dry and keen. The winters are not unduly severe. The average annual rainfall, taken from official records at places scattered throughout the area, is about 29 inches.

We are indebted to Mr. Joseph Ball, of Rosebank, Kalpowar, for a valuable private record over a period of 21 years, from 1908 to 1928 inclusive, of the rainfall at Rosebank, which is situated about 18 miles north-east of Monto. This record shows the daily and monthly rainfall throughout the whole of this period. The average is 33 inches. It will be noted that this average is greater than the average rainfall for the whole settlement, which is evidently accounted for by the nearness of the country to the Dawes Range.

So valuable do we consider this record to be that, for the information of settlers throughout the area, we have reproduced it in full in Appendix D.

The Upper Burnett and Callide Valley are served by the Burnett IV.— River, and many large creeks. On the southern watershed there are Floods and Splinter, Three Moon, Monal, Boogolgopal, Cattle, Trevethan, Small's, and other creeks, and the Rawbelle or Nogo River. On the northern watershed the creeks are Grevillea, Kariboe, Kroombit, Callide, and Bell. creeks drain an extensive area of country, and in heavy rains the water overflows the banks and inundates the adjacent flat country. In places there is a considerable current.

Reference to the rainfall record abovementioned will show that the years 1927 and 1928, and the early part of the current year, were exceptionally wet. In consequence floods were more severe than usual, and much damage was done on the rich alluvial flats adjacent to the creeks. Crops were damaged or destroyed, and fences were pushed over by debris brought down by flood waters. A number of settlers complained that their crops had been destroyed in three successive years.

The set back that such a happening would be to a new settler can readily be imagined. In fact, so disappointed were some that they have expressed their intention of not putting this flooded country into cultivation again.

We think that, generally, settlers have much more to fear from dry conditions, than from excessive rains, unless they take steps to protect themselves by storing fodder. In average years the great bulk of the rich agricultural land in the district may be cultivated without losses by flood.

### CHARACTER AND SUITABLENESS OF SETTLERS.

Settlers are a good type.

Of the 1,108 settlers who have been allotted portions, we met and discussed settlement problems with 339. Not more than five per cent. of this number are unsuited for facing the pioneering conditions of a new settlement. On the other hand, at each place visited we saw a number of hard-working progressive men, who are determined to succeed, and whose accomplishments to date are very creditable. These men will be a stabilising influence in the places where they are settled. The scheme will not fail for want of suitableness of the settlers.

#### MARKETS AND PRICES FOR PRODUCTS

Variety of crops.

The land is capable of producing many and varied products such as different kinds of crops, cream, pigs, and fat stock. For the present cream and cotton are the principal products.

II.—
Butter and cotton are chief products.

The problems of marketing the products from the area are no different from the general problems of marketing which face all primary production in the State. They need not, therefore, be specifically referred to in this Report.

As already mentioned the two chief products are butter and cotton. Butter is protected by the "Patterson scheme," under which the Australian consumer pays more for the butter he uses than World's parity. The tax the consumer thus pays equals about  $4\frac{1}{2}d$ . per lb. on all butter exported.

The dairying industry is conducted not only in Queensland but in all the States of Australia; its operations are well known to Government Authorities, both State and Federal, and there is nothing exceptional in this district, regarding markets and prices, to which attention should be drawn.

## THE FOUNDATION OF MONTO.



Site of Monto, 1924, at the commencement of settlement.



Monto to-day.



The main street, Monto.

Less than five years old, Monto is a rising township, in picturesque country in the heart of the Upper Burnett. Surrounded by good dairying and agricultural land, Monto is destined to become the capital of the Upper Burnett and a country township of considerable importance. Face Page 16.]

With cotton, however, the position is different. The Upper Burnett III. and Callide Valley and neighbouring districts are specially suited for the production of cotton. In fact they are the chief cotton producing centres is going backwards, of Queensland and Australia.

The area under cultivation is, however, going backwards. Although definite figures for the 1929 season are not available, the evidence clearly establishes that, throughout these districts, the area of cotton at present being harvested is less than the preceding year, and the prospects are that smaller areas will be put under crop during the current year. In the circumstances we will give a brief outline of the Queensland Cotton Industry and explain the reasons for the downward tendency.

In the year 1919, the State Government, in order to encourage the IV. growing of cotton in Queensland, instituted a system of guaranteed prices, definite intimation being given that the period of guarantee would be for five years, the rates of payment to be varied according to circumstances from time to time. During the first two years of the guarantee, a price of  $5\frac{1}{2}$ d. per lb. was paid for all seed cotton harvested. During the subsequent years the maximum price ranged from  $5\frac{1}{2}$ d. to 5d., and variations were made in the price according to the grade and staple length of the seed cotton. Up to and including the year 1923, the State Government had incurred a loss of £68,930 as a result of the guaranteed prices.

From and including the year 1924, the Commonwealth Government agreed to share in the losses involved by the guarantee. The last year of guaranteed prices was 1926, the price for best grade being fixed at 5d. per lb. maximum, but in addition the Queensland Government paid 1d. per lb. as a special grant to growers, thus bringing the price for the best grade of cotton to  $5\frac{1}{2}$ d. per lb.

In 1926 the Commonwealth Cotton Bounty Act was passed. provides for a direct bounty on seed cotton of 11d. per lb. on higher The Comgrades, and 3d. per lb. on lower grades. The Act also provides for a bounty on cotton yarn made in Australia subject to at least 50 per cent. of Australian cotton being used in the manufacture of the yarn. bounties are payable for five years from 16th August, 1926.

The following figures, for which we are indebted to the Manager of VI.the Queensland Cotton Board, indicate the fluctuations in cotton growing Area and in Queensland, and the prices obtained by growers :-

cotton crop.

	Year.		Approximate Area under Crop.	Weight,	Average price per lb. (approx. only).	Total value of crop (on guaranteed or bounty prices).		
1920 1921 1922 1923 1924 1925 1926 1927 1928	 	 	Acres. 166 1,967 8,176 28,695 35,373 40,000 36,000 18,000 24,970	Lb. 45,581 922,778 3,878,673 11,769,502 15,179,046 18,296,507 9,007,148 7,054,951 12,218,036	$d.$ $5^{\frac{1}{2}}$ $5^{\frac{1}{2}}$ $5^{\frac{1}{2}}$ $5^{\frac{1}{2}}$ $5^{\frac{1}{2}}$ $4^{\frac{1}{2}}$ $5^{\frac{1}{2}}$	£ 1,038 21,145 88,466 264,399 314,775 338,187 *188,989 150,000 228,000		

<sup>\*</sup> Includes State grant of 1d. per lb.

It will be noticed that since 1924, when the payment to growers was made dependent on the grade of cotton produced, the proportion of low grade cotton harvested somewhat affected the average price per lb. received by the growers.

VII.—
Amount of Commonwealth bounties paid.

The amount of Commonwealth bounty for the year 1927 was approximately £43,000, and for the year 1928, £76,000. This equals a bounty of approximately 40 per cent. and 50 per cent. respectively on the value of the crop. The protection already granted is, therefore, considerable, though the evidence before us clearly establishes that it is insufficient if the industry is to survive.

VIII.—
Is the cotton industry worth establishing?

What is the value of the cotton industry to Queensland, and is it worth establishing as an integral part of the life of the State? The Cotton Board answers this query with the following comment:—

"Already this young industry is playing an important part in the life of the community. With the production of slightly over 12,000,000 lb. of seed cotton in the 1928 season, more than 4,000 pickers were employed, exclusive of family labour. The wages bill is a big one. The payment to the railways for transport charges was approximately £8,000. Further moneys have been paid in connection with the handling of lint for export, and the ginneries and oil mills of the British Australian Cotton Association employed during the season about 120 employees. In addition, this company pays away other large sums of money for cartage, handling, and shipping charges on cake and oil. In the face of these facts it is easy to visualise the very great influence for good which an extensive cotton industry would have on the community in general.

A quadrupling of the present crop is possible within a very short space of time. This increase in the crop, however, can only be brought about by sales of lint to Australian spinners. This would mean an additional annual income of £600,000. The effect of this increased wealth upon the relieving of unemployment and upon the important national questions of development and migration is difficult to measure.

If the industry is worth establishing, and this we contend is unquestionable, then due regard must be had to the fact that adequate assistance is necessary during the experimental stage. When one has regard to the fact that the American industry has been in existence 100 years, it is obvious that the Australian industry, which has only been in existence a few short years, has not yet emerged from the experimental stage."

IX.— Stabilisation of prices essential. For the Callide Valley the matter of the survival of the cotton industry is of great importance. The foundation of that district, much more so than the Upper Burnett, was based on the growing of cotton. Cotton originally attracted most, of the settlers to the land. Cotton kept them going. Cotton established the towns of Biloela and Thangool. If, therefore, unsatisfactory prices now compel the abandonment or considerable curtailment of the industry, a serious blow will be dealt the district. Everywhere it was noticeable that there is almost a scramble on the part of cotton growers, who have or can obtain finance, to go in for dairying because of the greater measure of stability that pertains to the dairying industry.

Cotton growing, as an industry, must surely and quickly decline unless means can be found to stabilise prices, and ensure a reasonable return to the grower.

Last season's average price (including bounty) of 4½d. per lb. for raw X. cotton does not pay the grower for an average crop. Although there have production been instances of cotton crops yielding up to 1,400 lb. to the acre, the been instances of cotton crops yielding up to 1,400 lb. to the acre, the average production, from all evidence obtained by us, is about one bale (480 lb.) per acre.

The following schedule giving costs of production for 100 acres of cotton, yielding one bale (480 lb.) per acre, shows that a return of 41d. per lb. is inadequate :-

lb. is inadequate:—												
COTTON GROWING.												
	Capital	l Inves	ted.									
Improvements—							£	$\mathcal{S}$ .	d.			
200 acres cleared and brok							600	0	0			
280 chains of fencing at 10		• •		• •	* * *	٠.	140	0	0			
30 31 3 3	• •	• •	• •	• •			500	0	0			
0.11	• •		• •	• •		• •	50	0	0			
XXX . 0 . 121.	• •	• •	• •				50	0	0			
v	• •		• •	• •	• •	• •	250	0	0			
Total value of improve	ments		• •			5	£1,590	0	0			
Machinery and Equipment—												
							210	0	0			
							40	0	0			
1 0							74	0	0			
							14	0	0			
Cotton planter and scarifier							28	0	0			
One Ford ton truck							210	0	0			
							£576	0	0			
Total capital invested						4	€2,166	0	0			
Cont	o of (	Ya. 14 4										
		lultivat										
Cost per acre (ploughing):- lubricating oil, 1s.; repairs,	-Powe $2s.$	er, ke	rosene,	ben	zine, 7	s.;						
Cost of ploughing 100 acres							50	0	0			
Two harrowings at 2s. per acre							10	0	0			
Planting, 2s. 6d. per acre						·	12	10	0			
Cotton seed, 12 lb. per acre							5	0	0			
Three scarifyings at 4s. 6d. per	acre						22	10	0			
Thinning out, 7s. per acre							35	0	0			
Total cost of cultivating 10	0 acre	S					£135	0	0			
Gross A	eturns	from	100 A	cres.								
Estimated yield, 480 lb. seed					d. per	lb.	900	0	0			
		Costs.			£							
Picking at 2d. per lb					400	)						
Q 111					135							
							535	0	0			
Net returns from 100 acres of	eotton	—appr	oxima	tely 1	d. per	lb.	£365	0	0			
		l Char							-			
Interest on capital at 6½ per cer							140	1~	1.0			
Depreciation on structural impro			nor oo	nt		• •	140					
Depreciation on machinery, 10 p	er cer	nt.	per ce		• •	• • •	49 57		0			
z-producton on machinery, 10 p	CI CCI			• •	• •	• •			-			
- 0							£247	17	10			
Net returns from cotton							365	0	0			
Overhead charges							247					
NT-1 C1					•				-			
Net profit		• •	• •	• •	• •	• •	£117	2	2			
=:585d. per lb., or £1 3s.	od. pe	r acre.										

If means could be found to increase the return by 1d. per 1b., making an average of about 5½d. per lb., which was the price originally guaranteed by the Queensland Government, the area under cultivation would be largely increased, and the industry would have unlimited possibilities of expansion in this fertile tract of country. At that price, if only an average crop were obtained, the farmer would receive a small, but not insignificant, profit, while, on the other hand, if he were fortunate enough to secure a good crop of two bales to the acre, he would receive a handsome return for his labour.

XI.—
Comparison
of picking
costs—
Queensland
and America.

Analysing the production costs quoted above it will be found that the heaviest item is that for picking the cotton. This costs 2d. per lb. In the United States of America, the chief cotton producing centre in the world, the cost of harvesting seed cotton is only slightly over ½d. per lb. How, then, can Queensland compete without heavy protection?

Doubtless this low American cost of harvesting is the chief reason why inventive genius has not been invoked to provide a satisfactory mechanical picker. While a mechanical picker is not needed in the cotton belt of America, where low wages and deplorable industrial conditions prevail, such a machine in Queensland, if it enabled cotton to be harvested at, say 1d. per lb., might well be the salvation of the industry.

XII.— Commonwealth Government now considering action. Various proposals have been submitted to the Commonwealth Government by the Queensland Cotton Board and by cotton manufacturers to help the growing and manufacturing industries over the difficulties with which they are faced, due to competition from overseas.

These proposals may be summarised as follows:—

- (a) Duty on raw cotton and linters to be imposed so as to ensure the purchase of the Australian article by spinners.
- (b) Deferred duty on cotton yarn to be made effective.
- (c) Duty on cotton wadding and oils to be increased.
- (d) Bounty to be given on percentage yarn.
- (e) Bounty on cotton yarn to be increased.

The Commonwealth Tariff Board has inquired into these matters, and has reported thereon to the Commonwealth Government, which now has them under consideration.

Unless a decision is given immediately, which will indicate to the growers that they will receive more than an average of 4½d. per lb. for their seed cotton, there will be a marked shrinkage in the acreage of cotton planted this season.

#### GLIMPSES OF THE UPPER BURNETT.



A field of cotton, Waratah.



" Kerwee," a residence on the settlement.



The start of a new township on the Many Peaks-Monto Line, 13 miles north-east from Monto. The first building erected is the railway station-master's house. Face Page  $20.\rceil$ 

#### GENERAL ADMINISTRATION.

Matters of general administration in regard to the Settlement will i.-Matters be discussed under the following main headings:discussed.

- (1) Sound Settlement Areas.
- (2) Additional Areas for Settlers.
- (3) Capital Values and Rents.
- (4) Freehold Tenure v. Perpetual Lease.
- (5) Water Facilities for Settlers.
- (6) Roads and Bridges.
- (7) Operations of the Agricultural Bank.
- (8) Immigration Settlement.
- (9) Prickly-pear Land.
- (10) Departmental Organisation.

#### SOUND SETTLEMENT AREAS.

In determining sound settlement areas it is first necessary to have I.regard to the purpose for which the land will be used. This land may be Areas should be deterused for agriculture or dairying.

mined on dairying basis.

To carry on agriculture successfully, assuming there is a satisfactory market, requires a smaller area than does dairying, but we think it would be very unwise to found this settlement on an agricultural basis only. Not only does agriculture require the best quality of land and assured rains, but the settler must wait a whole year for his returns. Moreover, the future of cotton is not certain, and the market for other agricultural products fluctuates enormously.

Dairving, on the other hand, can be successfully conducted on indifferent land, so long as a reasonable area of cultivation is available. It gives a regular monthly return; it has a stabilised market, and insurance against dry seasons can be provided by the conservation of fodder. We think that the areas of this settlement should be determined on a dairying basis, rather than force the settler into an inevitable gamble on agriculture, dependent as it is on seasons, markets, and prices.

Considered in this way we are of the opinion that, on an average, H.the areas are too small. Some of the portions are large enough, while others are quite inadequate to provide a reasonable living for the settler. The mistake that was originally made in the Mundubbera subdivisions has been repeated, though, fortunately, not to the same extent.

For successful settlement some of the portions will need to be doubled in area, others increased by 50 per cent., while a number will be quite satisfactory as they are.

A settler should, in our opinion, have such an area as will not merely provide for his present requirements, but give him as time passes some opportunity of augmenting his income by the intelligent use of his land. A bare living is not a sufficient inducement to settle on the land, nor does it give much incentive for developing the land to the utmost.

III.—
The factor of family labour.

Another factor to be weighed in determining areas is that the farm income always represents the labour of at least two persons. Often it represents the labour of a large family.

The hours of work also are longer than in any regulated industrial calling, and usually average 10 or 12 hours per day. And although labour may be lightened by the use of machinery such as tractors, milking machines, power separators, and the like, the work of a successful dairy farm must always entail long hours. Neither is there any break nor holidays; the work is continuous the whole year round. Indeed dairying has been facetiously described as the nearest known approach to perpetual motion.

On the other hand the compensations for the effort put into the building up of a successful farm are many—Natural life, monthly income, independence, cheaper living on account of using the products from the farm, and augmented assets in old age owing to the land increasing in value as years pass by, are the most obvious advantages that accrue.

IV.—
A "forty-five cow standard" recommended.

For a new settlement such as this we are of the opinion that each settler should have sufficient land to permit him to have at least 30 milkers in profit throughout the year; that is, his selection should be capable of carrying about 45 head of grown cattle, together with young stock and necessary working horses, and should also have at least 50 acres of cultivable land for growing feed for the cows. This should give him a gross income from his dairy of about £360 per annum, which ordinarily would be added to by pigs, crops, &c.

The standard suggested is for selections well situated; areas would need to be still further increased for lands more remote from railway, or subject to any special disability.

V.—
Areas
required on
new
standard.

What area will be required to fulfil this new standard? The carrying capacity of land varies greatly. The best of forest land in this district may carry one beast to five acres throughout the year. Forest land capable of being used for dairying varies in capacity from this down to one beast to ten acres.

Areas would therefore range from 300 acres upwards according to quality, with an average area of, say, 500 acres. Scrub lands planted with artificial grasses are of better carrying capacity than forest country; moreover, such grasses retain their succulence longer.

We think, however, that 300 acres of the best dairying land on the settlement is sufficiently small.

VI.—
Increased areas not needed in all cases.

We repeat that increased areas will not be needed in all cases. In many instances settlers are satisfied with the areas they hold, and many areas conform to the standard laid down by us; in fact, a few settlers have more land than they can improve and bring into production.

## GRAZING AND AGRICULTURAL LANDS, UPPER BURNETT AND CALLIDE.



Ringbarked ridges between Waratah and Kolonga, Upper Burnett.



Hereford cattle grazing, parish of Grevillea, Callide Valley.



First-class cultivation land, Cania road, Upper Burnett.

"Rich belts of country exist which bear comparison with anything to be found in other parts of Queensland, and, if closer settlement could not succeed in the Upper Burnett and Callide, the outlook for increased primary production in Queensland would be dismal indeed."—Page 15.

Face Page 22.]

In all cases, however, where settlers have less than the standard area they should be allowed to increase their holdings.

It may be objected that a "45-cow standard" does not give much VII.scope to a man with a large family. Each son of the family, however, if of the age of 16 years, may acquire or select a similar area on giving proof that he is in a position to develop it. The land may then be worked in conjunction with the father's block, and if distant not more than five miles, residence by the son on the father's block will suffice for performance of the condition of personal residence.

The position of the family man,

Moreover, there is no obstacle in the way of the father acquiring by purchase additional land when he is in a position to work it, so long as he keeps within the general limit as to area laid down by the Land Acts.

As already stated not all the land in the settlement is suitable for agriculture or dairying; some of it is purely grazing country.

Standard for grazing areas.

The area required to make a living from grazing in this district varies according as the land is fattening or breeding country.

The evidence establishes that a fair return from fattening country is about 30s. per beast per annum on the carrying capacity of the holding. In our opinion grazing areas in this district should have capacities ranging from 300 head to 1,000 head of cattle according to the character of the country, distance from railway, and other circumstances present in each case.

## ADDITIONAL AREAS FOR SETTLERS.

The matter of adjusting areas at this stage will be a task of great I.difficulty. It is well to recognise that no matter how admirably the matter difficulty. Administrative difficulty. may be handled, no matter with what equity and justice the claims may be met, all the settlers are not likely to be satisfied. Human nature has its weaknesses; self interest is still a powerful trait of mankind. most men are poor judges of their own cases; they look not for equity or justice but for acquiescence in, and approval of, their claims.

ties in

It must not be expected, therefore, that these adjustments can be effected without criticism from those whose applications for additional areas are such that they cannot reasonably be met. Disappointed hopes, when concessions are going around, are always a source of heart-burning and discontent. However, if the interests and prosperity of the whole of the settlement are truly served, that is all we can hope to accomplish.

Two main classes of cases will arise for consideration, selections II.which have vacant Crown lands either adjoining or in close proximity, and selections which have no available Crown lands in their neighbourhood. consideration.

The first group of cases may be adjusted by allotting to each selector a portion of the available Crown land as an additional area, or in the event of there being more than one applicant with equal claims, by holding a ballot to determine priority.

But in the case of two claimants for the same additional area it might so happen that one of them had fully developed his existing holding while the efforts of the other had been somewhat half-hearted. In such an event we think the person who had proved his greater capabilities as a selector should receive preference over the other applicants.

In the second group of cases, where no Crown land exists in the immediate neighbourhood, the selectors should be allowed to adjust their position by buying from or selling to one another. In the event of a selector selling his holding to his neighbour, he should be allowed to select a sufficient area of available land elsewhere in the scheme.

III.—
Should additional areas be granted some distance away from original holdings?

Another question that arises is whether, in the event of there being no vacant Crown land near at hand, additional areas should be granted at some distance, say up to ten miles, from original holdings. The evidence shows that opinion amongst settlers is about equally divided on this question. Many would prefer such additional areas to none at all, while many think that additional areas, so situated, would be of little value to them.

The Board does not favour the proposal. We think that moves of this kind, dictated by expediency, should be barred. In our opinion such a form of patchwork settlement would give satisfaction to very few and ultimately would be against the best interests of the district.

IV.— Summary of recommendations as to areas. Summarising the requirements of the position as to size of areas and as to granting additional areas we recommend:—

- (1) That the areas for new settlement in the Upper Burnett and Callide Valley be based on dairying rather than on agricultural pursuits.
- (2) That each settler be allowed to hold such an area as will permit him to milk at least 30 cows all the year round—that is, his selection should be capable of carrying at least 60 head of mixed dairy stock, with necessary working horses, and should also provide at least 50 acres of cultivable land.
- (3) That new selections remote from railway, or subject to other disabilities, be increased in area beyond this standard.
- (4) That selectors already established on areas that do not conform to above standard be allowed to increase their holdings—
  - (a) By the allotment to them of an additional area in the event of there being vacant Crown lands in the immediate neighbourhood; or
  - (b) By the purchase of a neighbouring selection.

## NATURE'S WEALTH, CALLIDE VALLEY.



Natural grass, parish of Grevillea (third section).



Growth of natural grass, Callide Valley.



Extensive flats, parish of Grevillea (third section). The third section has not yet been made available for settlement.

"Judged on the basis laid down recently by the British Economic Mission, the Upper Burnett and Callide Valley Settlement Scheme may be regarded as a sound State investment. Indirectly, it will return interest and redemption manifold."—Page 10.

Face Page 24.]

- (5) That additional areas be not granted more than a few miles away from the original selection, and that generally selectors requiring an additional area, whose selections adjoin available Crown land, be regarded as having a better claim to such available land than selectors more remote.
- (6) That claims for additional areas of available Crown land be heard in open Court, and be determined judicially by the Land Commissioner, with a right of appeal to the Land Administration Board, whose decision would be final.
- (7) That when additional areas have been granted, or acquired, personal residence on one of the blocks should be regarded as sufficient—that is the additional area should be free from residential conditions.
- (8) That in order to facilitate adjustment of areas, selectors be allowed to sell their holdings to their neighbours. For this purpose the subdivision of selections and the sale of a portion to one neighbour, and a portion to another neighbour, to be allowed, and the Agricultural Bank to make advances to assist such dealings.
- (9) That bona fide selectors who sell their holdings to neighbours be eligible to select a new selection of adequate area elsewhere in the settlement.
- (10) That the area of grazing land which one person may acquire be regulated according as it is fattening or breeding country, and that these areas vary from a carrying capacity of 300 head to 1,000 head, according to the circumstances present in each case.

#### CAPITAL VALUES AND RENTS.

The capital values of dairying or farming blocks on the settlement I,range from 17s. 6d. per acre to £3 10s. per acre, and the rents payable Range of on grazing lands from  $\frac{3}{4}$ d. to  $5\frac{1}{2}$ d. per acre. These figures include values and "loading" for the necessary roads and bridges constructed by the Crown.

At one time it was the practice of the Department to show II. "loading" separately, but for certain administrative reasons that practice The method was discontinued, and the value of the land and the amount of loading, although calculated separately, were eventually lumped together in one bridges. sum as the capital value.

In the case of this settlement the loading on Perpetual Leases was arrived at on an acreage basis—that is each acre of land carried the same amount of loading, irrespective of the quality or productive capacity of the land. The consequence of this method was that the capital values of inferior lands were fixed at rates relatively higher, and out of proportion to the capital values fixed on the good lands.

However convenient this method may be, in practice it is unsound, and hence many capital values need to be reviewed.

III.— Conflicting views of selectors. About two-thirds of the witnesses who came before us asked for a reduction in capital values, the remainder were satisfied with their present values. In fact many settlers expressed the view that the capital values of their selections were moderate, and that it would be unreasonable to request a reduction.

IV.—
Rents are merely 1½ per cent. of capital values.

It has already been pointed out earlier in this Report that, on the Perpetual Lease system, the rental payable is merely  $1\frac{1}{2}$  per cent. of the capital value. As the real value of money is about four times this percentage, capital values would indeed have to be high before the tenant was unduly burdened by rent. On present capital values the rents payable by tenants on average selections range from about £6 to £13 per annum, or from 2s. 6d. to 5s. per week. Such rents, providing the selections were reasonable living areas, would be quite moderate.

Crown tenants cannot expect to get their lands for nothing, because the Crown loses the grazing rents which were formerly collected from the lands, and has to pay interest and redemption on the cost of resumptions and on the cost of constructing roads and bridges, not to mention the new settlement railways.

V.— Recommendations as to rents. While we think that the best of the lands are not unfairly rented, we consider it desirable that reductions be made on the more inferior dairying lands and on the grazing lands.

We therefore recommend that the Board be authorised to review all capital values and rents so that they may be fixed in correct relation to each other, and in all cases be based on the quality and productive capacity of the land.

## FREEHOLD TENURE V. PERPETUAL LEASE.

I.—
Difference between annual rents on Agricultural Farms and Perpetual Leases.

Allied to capital values and rents is the question of tenure, because if the Government decides to allow conversion of the tenure of the lands in this settlement from Perpetual Lease to Agricultural Farm Selection, the rents on the new basis will be different. As already stated, rents on the Perpetual Lease system are  $1\frac{1}{2}$  per cent. of the capital value. On the other hand, the purchasing price of Agricultural Farms is paid by the Crown tenant, in annual instalments as rent, over a period of thirty years; during the first twenty years the annual rent is one-fortieth, or  $2\frac{1}{2}$  per cent. of the total purchasing price, and during the remaining ten years it is one-twentieth, or 5 per cent. of the total purchasing price. These payments complete the purchase of the land, and entitle the selector to a Deed of Grant.

II.—
Merit of
Freehold v.
Perpetual
Lease is a
political
question.

The merit of Freehold v. Perpetual Lease is a political question which it is not our function to discuss, for it is a well recognised constitutional maxim that permanent officers of the Crown should not engage in political controversies, nor publicly comment on any matter affecting their Departments, which is a current political issue in the country. We intend to observe that maxim.

The late Government, which founded this settlement, adopted the perpetual lease tenure as a matter of policy. If that system is continued it is necessary, as explained above, that the lands be revalued. however, the present Government decide to allow conversion to freehold it will be still necessary to review and reduce the value of the lands so that the annual rents, payable as instalments of purchasing price, may be fixed at a fair economic amount in each case.

Before leaving this subject it only remains for us to record the fact III. that the majority of Crown tenants on this settlement who expressed their views on the question prefer that their selections be held under a freeholding tenure rather than under the perpetual lease system.

Farm or freeholding

#### WATER FACILITIES.

When this country was used for grazing, and was divided into large I.paddocks for that purpose, the natural water supply, augmented by a few wells, was sufficient for all purposes. When it was divided into small supplies. holdings, however, the natural water supplies were confined to comparatively a few blocks, and it was necessary to obtain artificial supplies for the remainder.

To aid settlers in locating underground supplies of water and in II.sinking wells and sub-artesian bores, Government assistance was offered. Government The officers of the Irrigation Commission advised against the putting down granted. of earth tanks in this settlement, on the ground that bores gave a better and cleaner supply of water, and because of the non-holding nature of the ground in places. Wells and sub-artesian bores were therefore concentrated on, and little has been done in the way of putting down tanks.

Arrangements were made by the Minister for Lands, through the agency of the Irrigation Commission, to sink bores and supply equipment, on the application of settlers, subject to the following terms and conditions :-

- (1) The settler was to take over the water facility at its actual cost, provided that no settler would be charged more than £300—that is, no matter what the bore might cost, the settler's maximum liability would be £300; any amount in excess of that would be a loss to the Crown.
- (2) Windmills or engines, and troughing were to be supplied to the settler at actual cost.
- (3) Interest and redemption payments were to be made by the settler, in the case of the bore over a period of 20 years, the redemption payments to start after the third year, and in the case of the equipment over a period of 10 years, redemption payments to start after the second year. Interest and redemption payments would amount to £8 16s.  $0\frac{1}{2}$ d. per cent. for the bore and £15 6s. 5d. per cent. for the equipment.

III.— Method adopted. Much of the country presented no difficulty in the matter of subterranean water supplies, but some of it, particularly the Mulgeldie scrub area, was notoriously difficult. The method adopted was for the Government Water Finder to choose a site on which the officers of the Irrigation Commission sank the bore. The work was entirely controlled by the Irrigation Commission, and the full cost thereof was charged to the Lands Department, which, in turn, took a mortgage over the selection providing for repayments as outlined above.

IV.— Quality of work done. We are satisfied, from the evidence, that the quality of the material and workmanship in these bores and equipments is quite satisfactory. Only a few specific complaints were made to us, and these are being departmentally considered.

It was also complained by several settlers that certain items of the equipment were of a better standard, and consequently cost more than the price at which suitable articles of lesser quality could be obtained. We have no doubt that this is correct, but when ten years' repayment terms are allowed the equipment has to be of high quality so that it will stand up to constant use over that period. No settler could obtain the equipment supplied him by the Irrigation Commission at a less cost than he is charged.

V.— Weakness of method. This method of assisting the settler to provide a water facility may seem admirable, yet it has a great and serious weakness.

Many Crown tenants are willing to make contractual obligations with the Crown, intending at the first opportunity to try and obtain relief from them. They know that the Crown is interested in their welfare and is not likely to be unduly harsh if default is made in payments. They know that the Government is elected by the people, and they rely on the influence that the power of a vote can sometimes secure. Nothing could be more dangerous to the success of closer settlement schemes, under democratic Government, than this tendency which many small settlers have of entering lightly into contractual obligations with the Crown, and then at the first opportunity trying to escape their individual obligations by passing them on to the community. This is a modern tendency, and it must be dealt with departmentally with a strong hand. Too much "spoon feeding" will never make a successful settler, rather it produces a discontented, grumbling, and unreasonable tenant, whom nothing will satisfy, and all administration displeases.

VI.—
Water
charges
overcapitalise
some blocks.

And yet, no matter what motive may have induced Crown tenants voluntarily to undertake these obligations, we are forced to the conclusion that some of the water charges over-capitalise some of the blocks. If obligations are to be enforced it is necessary that they be such as can be economically borne by the tenant. We cannot see how an average tenant

## THE TOWNSHIP OF BILOELA, CALLIDE VALLEY.



The Public Hall at which the Board conducted its investigation.



The main street, Biloela.



The main street, Biloela.

"The progress that has already been made, and the towns that have been established throughout the area, speak well for the energy and enterprise of the people, and, in the course of time, there is no reason to doubt that this great new district will compare favourably in prosperity with the older closer settled districts of the State."—Page 15.

Face Page 28.]

can afford to pay, on a small block, £300 for a bore and £200 for equipment, on the terms charged. The interest and redemption payments would amount to £26 8s. for the bore and £30 12s. for the equipment, or a total water charge of £57 per annum. In addition to this the settler would have to pay rent, rates, improve the land, and probably pay interest and redemption on an Agricultural Bank loan. It cannot reasonably or economically be done.

Instead of a hypothetical case we will give some actual examples.

Portion 103, parish of Selene, is a scrub block comprising 149 acres. Its capital value is £1 7s. 6d. per acre. The annual rent, on the basis of 1 per cent. of the capital value, amounts to £3 ls. 7d., or approximately 5d. per acre. The cost of the bore to the selector is £300, and of the equipment £192, making a total of £492, which equals a capital cost over the whole block of £3 6s. per acre. His interest and redemption charges now payable amount to £55 16s. 5d., or 7s. 6d. per acre per annum.

Portion 19, parish of Tellebang, is also a scrub block. It comprises 161 acres. The capital value is £2 10s. per acre. The annual rent amounts to £6 Os. 11d., or 9d. per acre. The cost of the bore to the selector is £300, and of the equipment £357, making a total of £657, or £4 ls. 7d. per acre over the whole portion. The interest and redemption charges now payable amount to £81 2s., or 10s. ld. per acre per annum.

Can there be any doubt that some blocks have been over-capitalised?

In regard to earth tanks we are of the opinion that they have not viii. been sufficiently tested. Many selections have good catchments, and the Board is satisfied that the subsoil in a large number of the blocks will hold water well.

of earth tanks not sufficiently tested.

VII.--Illustrations

of over-capitalisa-

The present price, locally, for the construction of earth tanks is 2s. per cubic yard. If a number of tanks were to be put down it is probable that tenders could be obtained at 1s. per yard. On this basis . the cost of clearing the site, constructing a 2,000-yard tank, and necessary silt tank and drains, would be about £150. This would provide a satisfactory and cheap water supply for a selection. In the provision of future water facilities we think that more attention should be given to the possibilities of earth tanks.

A schedule giving in detail particulars of water facilities provided IX. for settlers is contained in Appendix E. The depth of wells ranges from 22 feet to 70 feet, and of bores from 36 feet to 666 feet. The cost of the wells and bores varies from £26 to £498. The cost of the equipment varies from £35 to £357. The total amounts which the selectors are required to take over on mortgage in respect of water facilities, including equipment, vary from £137 to £657.

Particulars of water

X.—
Total Crown
expenditure
to date on
water
facilities and
equipments.

The total Crown expenditure to 31st March, 1929, on water facilities and equipments, including plant, was £73,760 4s. 6d., made up as follows:—

WS :-								£	8.	d.	£	8	. d.
Cor	nstruction of	of wa	ter fac	eilities	. 1						53,806	6	6
Sto	res										3,524	3	3
Pla	nt										9,419	2	4
Ad	ministration	n—											
	Salary an	d exp	oenses					5,140	1	4			
	Fares and	l freig	ght					177	7	9			
	Miscellane	ous (	includi	ng we	t weat	her pay	v)	3,597	2	2			
	Car							498	14	1			
	Holiday p	ay						946	6	2			
							_	10,359	11	6			
By	transfer	to in	dividu	al wa	ter fa	cilities	$(7\frac{1}{2})$	,					
	per cent.)							3,348	19	1	W 0 1 0		_
											7,010	12	5
	Tot	al								_	£73,760	4	6
										_			

X1.— Amount covered by settlers' mortgages.

Mortgages have been executed by selectors to date covering 235 bores or wells, and amounting to £45,433 8s. 3d. Further mortgages are in course of execution. Particulars are as follows:—

							£	s.	d.
Cost of	bores or well	s			 	 	22,643	16	4
	Less amount	borne	by	Crown	 	 	1,568	6	9
							21,075		
Cost of	equipments		٠.		 	 	24,357	18	8
	Total				 	 	£45,433	8	3

235 bores or wells cost the Crown £22,643 16s. 4d. (average £96 7s. 2d.). 235 bores or wells cost selectors £21,075 9s. 7d. (average £89 13s. 7d.). 148 equipments cost selectors £24,357 18s. 8d. (average £164 11s. 7d.).

XII.— Loss incurred by Crown. The amount of loss incurred by the Crown to date in the provision of water facilities totals £14,519 9s. 6d., or 19.5 per cent. of the total expenditure. This is made up as follows:—

Unsuccessful bores							5,940	10	4	
Expenditure in excess of a	mount	charge	d to s	selector	s		1,568	6	9	
Difference between actual	l cost	of su	pervis	sion a	nd am	ount				
charged to selectors		• •	• •				7,010	12	5	
Total							£14,519	9	6	

A list of the unsuccessful bores, with reason for failure in each case, is given in Appendix F.

XIII.— Overhead costs are too high. It will be noticed that the overhead costs in connection with these water facilities, including wet weather and holiday pay, are high, amounting to approximately 20 per cent. of the total outlay. This, however, is not all charged to the settler. He pays overhead costs at the rate of  $7\frac{1}{2}$  per cent. on the cost of construction; the balance is a loss to the Crown. That loss to date has amounted to £7,010 12s. 5d., which must be regarded as unsatisfactory.

There are a number of reasons for this high overhead cost, but the chief one only need be referred to. At the outset of this scheme the Government decided that the Irrigation Commission, acting as agent for the Lands Department, should put down these bores. This decision was merely in conformity with the general Government policy that there should be no duplication or overlapping of departmental activities or of staffs. Ordinarily, it is a perfectly sound principle. But in this instance the Lands Department already had Public Estate Improvement Staff and gangs operating in the area and all necessary administration machinery in connection therewith. The establishment by the Irrigation Commission of another working staff, separately and independently controlled, meant further administrative machinery and additional overhead costs.

If the Irrigation Commission's staff operating in the area were temporarily transferred to the control of the Land Administration Board, while engaged in this special work for which the Board must pay, the Board would be able to arrange complete co-ordination between the two sections, utilise all employees to the best advantage, dispense with duplication of staffs, and generally reduce overhead costs.

This matter is again referred to in a later section of this Report dealing with Departmental Administration, and as it involves a question of Public Service organisation we have also dealt with it, in greater detail, in a separate memorandum addressed to the Public Service Commissioner.

In regard to water facilities (including equipment) we make the following recommendations:—

Recommendations in regard to water facilities.

- (1) That the Land Administration Board, which has to meet all the costs in connection with water facilities, be given control of this work. For this purpose it is suggested that the water facility gangs and staff now operating in the Upper Burnett and Callide be placed, while engaged on such work, under the direction and control of the Board. This will considerably reduce overhead expenses.
- (2) That, notwithstanding the fact that mortgages have been executed, the Board be authorised to write down water costs to such amounts as will, in the judgment of the Board, be a fair capitalisation for each block. This will probably mean that a further sum of about £2,000 will be written off.
- (3) That when water costs have been adjusted in this manner, the payment of interest and redemption by the settler be strictly enforced.
- (4) That to provide cheap and satisfactory facilities for selectors in future, more attention be given to the possibilities of earth tanks.

#### ROADS AND BRIDGES.

I.— Early settlement and roads. The lands of the Upper Burnett were first used for grazing more than seventy years ago when the territory formed part of the Colony of New South Wales. They have been in continuous occupation ever since. As time went on, roads were constructed and creek crossings were made to the extent that was necessary for the effective use of the country for cattle grazing. Then, at last, came this settlement scheme which altered the whole aspect of road communication.

II.—
Need for additional roads and bridges.

With the advent of closer settlement entirely new roads had to be constructed to serve the new subdivisions and enable the settlers to get their products to the railway. New bridges, causeways, and crossings were also needed. Whereas, formerly, it was of little economic importance if a cattle grazier were isolated for a few weeks owing to the state of the roads and crossings, it is necessary under the altered settlement conditions that settlers should have daily, or almost daily, communication with the railway.

III.— General road policy and expenditure. The work of constructing the necessary roads and bridges was undertaken by the Public Estate Improvement Section of the Lands Department. The roads are intended to give reasonable pioneering access only—that is, they are cleared, where necessary formed with a grader, and rolled, but, except in a few exceptional places, they are not gravelled. The bridges, however, are first-class structures.

The cost of this work is, in the first instance, borne entirely by the Crown, and is defrayed from a parliamentary vote. Over a long period of years repayments are made by the selectors through the "loading" which is added to the capital value of their lands. When the roads and bridges have been constructed they are handed over to the Local Authorities, and the Crown accepts no further responsibility in respect of them.

Since the inception of the scheme five bridges and causeways have been built, and 634 miles of road constructed. Expenditure has been as follows:—

		 		Roads.	Bridges.	Total.
1923	rch, 19	 	 	\$\frac{\psi}{6,237}\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	£ s. d.  696 19 5 824 9 10 1,411 12 2 2,381 14 1 1,617 16 5 £6,932 11 11	£ s. d. 6,237 10 1 11,840 4 1 13,150 17 6 11,206 2 9 11,532 17 2 19,238 1 8 5,317 19 4 £78,523 12 7

Bridge figures include only large bridges. All culverts and crossings are charged to "Roads."

IV.—
Plant and
gangs
employed
and general
standard
of work.

The road work was commenced without adequate machinery, and much of the early construction was of an inferior standard. This short-coming, however, has since been remedied, and modern road-making plants are now in use.

#### NEW BRIDGES ON THE SETTLEMENT.



Bridge over Three Moon Creek, near Monto, Upper Burnett.



Kroombit Creek bridge under construction, Callide Valley.



Mack's Crossing, Monal Creek, near Monto, Upper Burnett.

"With the advent of closer settlement entirely new roads had to be constructed to serve the new subdivisions and enable the settlers to get their products to the railway. New bridges, causeways, and crossings were also needed. Whereas, formally, it was of little economic importance if a eattle grazier were isolated for a few weeks owing to the state of the roads and crossings, it is necessary under the altered settlement conditions that settlers should have daily, or almost daily, communication with the railway."—Page 32.

Face Page 32.7

The machinery and plant on hand, exclusive of the ordinary small tools and equipment, comprise the following:-Two Wehr graders, two 5-ton rollers, three utility trucks, three 1-ton trucks, and two pile-driving units, making twelve oil-driven engines in all, sixteen horses, six drays, and necessary road ploughs and scoops. There is also the necessary equipment for bridge building.

All works are carried out under the direction of the Engineer, who is assisted by three experienced Field Assistants with headquarters at Mulgeldie and Biloela. There are eight road gangs, four bridge gangs, and two road machinery gangs, making fourteen gangs in all, comprising some eighty men. Each gang is controlled by a competent ganger.

In travelling throughout the settlement we travelled over 1,000 miles v.of roads. We therefore traversed most of the road systems in use. Our What inspections commenced the week following heavy rains of about 7 inches. inspections The roads were therefore seen at their worst. On the whole they were in reasonably good condition for a pioneering settlement, but in some places they were very boggy, and a few instances were quoted to us of settlers losing their cream for some days, as the condition of the roads did not permit their getting it to the railway.

The Board forthwith recommended, notwithstanding that the roads vi. in question had been handed over to the Local Authorities, that the bad Repair work undertaken sections be immediately repaired at Government expense. The then Governforthwith. ment approved of this recommendation; the work was commenced at once and is still proceeding.

The Upper Burnett Area is mostly in the Shire of Eidsvold; a vII.small portion of it is in the Mount Perry Shire; the Callide Area is in Local These three Shire Councils, with headquarters interested. the Shire of Banana. outside the settlement, at Eidsvold, Mount Perry, and Banana respectively, must undertake the responsibility of maintaining all the roads on the settlement when they have been completed. Of the three Shires, Eidsvold contains much longer mileage of new roads, and will, consequently, have to carry the heaviest burden, but, on the other hand, will have the largest revenue.

After the adjustments we are recommending with regard to the settlement have been carried out, viz.:-

- (a) Repairs to bad sections of roads;
- (b) Increased areas to settlers;
- (c) Review of capital values and rents;
- (d) Review of water facility charges in special cases;

we think that the Shire Councils will have no difficulty in collecting from the settlers an equitable amount of rates that should be sufficient, without Government aid, to maintain the roads.

VIII.— Suggested change of Shire headquarters.

Eidsvold is, we think, not the most satisfactory centre for controlling the Local Government affairs of the larger portion of this new district. In its mining days Eidsvold was a town of considerable importance, but with the decline of mining the town declined, though it continued to exist as the centre of a pastoral or grazing district.

The land around Eidsvold is inferior to the land further north comprised in the Upper Burnett, and consequently is not capable of much development.

The town of Monto, on the other hand, is in the centre of the new settlement, surrounded by rich land with great potential productivity. It must undoubtedly be the chief town of the district. We think, therefore, that consideration should be given to shifting the Shire Headquarters to the heart of the new settlement at Monto. Indeed if the Government would consider the abolition of the Eidsvold Shire and the creation of a new Shire of Monto, embracing all the lands in the settlement, such action would materially advance the welfare of the district.

IX.—
Mount
LookerbieMonto road
versus
railway.

As explained elsewhere the railway from Rockhampton is now open to the town of Thangool, which is about sixty miles north of Monto by road. The rails have been laid beyond this point, and earth works constructed to Mount Lookerbie, seven miles beyond Thangool, but all work has been stopped for some time, and this section is not yet available for traffic. Before work is proceeded with beyond Mount Lookerbie it is recommended that the merits of a good road versus a railway be carefully considered.

A good road would cost less than half the amount needed for a railway, its cost of maintenance would also be less than half, while the users of the road, unlike the railway customers, would provide the whole of their own running costs. The extension of the railway would not materially affect the land settlement position, nor would it add to railway revenue, as all the production from the intervening lands would be sent to the nearest railway station in any event.

X.—
General recommendations re roads.

On the subject of roads and bridges we recommend as follows:—

- (1) That sections of the Public Estate Improvement constructed roads, that have proved untrafficable in wet weather, be re-formed and repaired by the Public Estate Improvement Section of the Department without contribution from the Local Authority, but the Local Authority to be responsible for all future maintenance.
- (2) That when allotments in new townships are being offered for sale by the Government, the street fronting such allotments be cleared and formed by the Public Estate Improvement Section.
- (3) That the annual Parliamentary Vote for all Burnett works, including roads and bridges, water facilities, and pear destruction, be increased by £10,000, making £50,000 in all.

# GRADED ROADS OVER RIDGY AND MOUNTAINOUS COUNTRY.







Different views of roads between Monto and Kalpowar, Upper Burnett.

This will enable the work to be speeded up, will release the Government from all liabilities at an earlier date, and will prove more economical in the end.

- (4) That, on economic grounds, consideration be given to the construction of a good road or a main road from Monto to Mount Lookerbie in preference to a railway.
- (5) That consideration be given to making Monto the headquarters of Local Government for the Upper Burnett.

#### OPERATIONS OF THE AGRICULTURAL BANK.

The State Agricultural Bank has furnished us with the following I. statistics illustrative of the Bank's operations in the Upper Burnett and for advances Callide:-

approved refused.

<del>-</del>	No.	Amount,
Total applications for advances received since inception of scheme, i.e., from 1st January, 1924, to 31st March, 1929	874 689 171 7	£ 176,523 88,131 42,364 1,023 1,780

An advance of £9,000 has also been granted to the Port Curtis Co-operative Dairy Association, Ltd., for the erection and equipment of a butter factory at Monto.

We found that a number of settlers were under the impression that II.-the Agricultural Bank had a monopoly of this business, that the law would not allow settlers to obtain advances from other financial institutions on the security of a mortgage over their selections. It was obvious that some of them were chafing under this supposed restriction. We pointed out that their interpretation of the law was incorrect, that the Minister has a discretion in allowing mortgages to institutions other than the Agricultural Bank, and further, we gave a definite assurance that, if bona fide applications were made for permission to obtain money from any recognised financial institution on mortgage, such permission would be granted.

institutions may Agricultural

#### IMMIGRATION SETTLEMENT.

The Upper Burnett and Callide Valley has already received attention I. as a possible field for the settlement of migrants.

The present Minister for Trade and Customs, the Hon. H. S. Gullett, when he occupied the position of Commonwealth Superintendent of Immigration in Australia, was sent, in 1921, by the then Commonwealth Prime Minister, the Right Hon. W. M. Hughes, P.C., to report on the suitability of the area for that purpose. The land was then being used for grazing only.

Previous reports on Immigration Mr. Gullett traversed the area from north to south, and spent a few days making general inquiries and investigations in the district. On his return to Melbourne he submitted to the Commonwealth Parliament a report on his investigations, and set out his conclusions, inter alia, as follows:—

- (1) In its soil, rainfall, elevation, and geographical proximity to the coast, the area is ideal for subdivision into small agricultural and grazing farms. Only railway communication and settlers are necessary to make it one of the most profitable rural localities in Australia.
- (2) Only the great rural wealth of farming lands possessed by Queensland, political controversy as to the routes of the proposed railways, and the lack of money have withheld the area from closer settlement.
- (3) An area with the same natural conditions, equal producing capacity, and located in New South Wales or Victoria, would, if served by railways but in its present undeveloped state, have an average value of at least £8 or £10 an acre, including its grazing portions.
- (4) The area—by its richness, its magnitude, and the simple methods by which it could be pioneered—is ideal for settlement in part by carefully selected immigrants.
- (5) As to climate, he expressed the opinion that "The Upper Burnett and Callide Valley country is, thanks to its elevation, as congenial to white people as any country in the Commonwealth."

II.—
Land
Administration Board is not the
Authority
in charge of migrant
settlement.

The Land Administration Board is not the authority for framing settlement schemes for migrants. The Commonwealth Development and Migration Commission acts in association with a "State Consultation Committee on Developmental Proposals." This Committee is composed of representatives of several Public Departments, including the Lands Department, and is under the chairmanship of the Minister for Agriculture, and with a Deputy Chairman, the Under Secretary for Works. It is charged with the function of formulating developmental, settlement, and migration proposals for investigation by the Commonwealth Commission. In the circumstances we merely express our opinion that, if migrant land settlement is desired in Queensland, the lands in the Upper Burnett and Callide Valley will be found as suitable for the purpose as any other available land in Queensland.

In framing any scheme, however, it would be necessary to see that the rights of the Australian settlers already established in the district to obtain additional land where it is needed are fully protected.

## PRICKLY-PEAR LAND.

I.—
Some of
Callide lands
are pear
infested.

The Upper Burnett Lands are almost entirely free of pear, but the northern and western boundaries of the Callide Valley Lands abut on pear-infested country, and parts of this section are infested. To date the Department has spent £10,501 in destroying pear by poisoning on this area, so as to prevent its encroachment on to the valuable closer settlement lands.

As the administration of the Callide Valley is under a special Act, these lands are excluded from the jurisdiction of the Prickly-pear Land Commission.

Notwithstanding the provisions of "The Upper Burnett and Callide II.-Land Act of 1923" we recommend that all pear-infested land in the Callide Valley be dealt with by the Prickly-pear Land Commission under the Prickly-pear Land Acts. That is, we recommend that these lands be made available for settlement under the same terms and conditions as if they were ordinary infested Crown lands, and did not form part of a special settlement scheme.

be dealt with under the Prickly-pear

#### DEPARTMENTAL ORGANISATION.

Since the inception of this settlement scheme the Upper Burnett 1.has been included in the Gayndah Land Agent's District, under the jurisdiction of the Land Commissioner stationed at Maryborough, and the Callide Valley in the Rockhampton Land Agent's District, under the nomical and jurisdiction of the Land Commissioner at Rockhampton. As explained elsewhere, in order that the Board might keep in close touch with the administration of the area, a Field Superintendent was appointed in April, 1928, and was stationed at Eidsvold. This town was chosen because of the Public Office and private house accommodation there available.

outside area is uneco-

Our inquiry has forced us to the conclusion that further efforts to administer this area from a place outside, or to postpone the formation of a separate Land Agent's District, would be both uneconomical and unwise.

To provide efficient administration we propose the following:-

II. rearrangements.

- (1) All the land in the Upper Burnett and Callide Valley to be gazetted a separate Land Agent's District under the name "Monto Land Agent's District."
- (2) The Monto District to be in charge of a Land Commissioner, with a Land Agent stationed at Monto. The Land Commissioner to have general supervision over all administrative work on the settlement.

A Lands Office will be needed at Monto. For this purpose part of the large public offices at Eidsvold, which are only partly used, could be pulled down and re-erected on the new site.

- (3) The Engineer in charge of road and bridge construction to be stationed at Monto, so that he may exercise a close supervision over all work, and expedite its completion.
- (4) The work of the Public Estate Improvement Section and of Water Facilities to be co-ordinated throughout by the Board taking over the Water Facility organisation, and amalgamating it with the Public Estate Improvement organisation. At present these two organisations are entirely independent of one another.

In the opinion of the Board this rearrangement would produce III. greater efficiency in Departmental work, with corresponding public satisfaction. Not only would it be more in accord with business principles but it would actually be more economical than the present arrangement.

Detailed recommenddirect to Public Service Commissioner.

As Departmental reorganisations of this nature are made by the Government on the recommendation of the Public Service Commissioner, Mr. J. D. Story, I.S.O., we have addressed to the Commissioner a separate memorandum setting out details of the present and proposed staffs, and also illustrating the economies that may be effected as well as the greater efficiency that will accrue. Such a memorandum, dealing as it does with the position of individual officers and employees, is not suitable for inclusion in this public Report.

IV.—
The question of accommodation for officers.

As Monto and Biloela are new townships, the question of accommodation for Public Officers stationed there will arise. The erection of the necessary Public Offices will be a matter for the Works Department. As already stated, consideration might well be given to removing part of the large unused public building at Eidsvold, and re-erecting it at Monto.

The matter of private housing accommodation is somewhat difficult. If the late Government's policy of not providing houses for its Lands Officials in country districts is adhered to by the present Government in the case of this new settlement, where no available housing accommodation at present exists, officers may be accommodated in one of four ways:—

- (a) Live at one of the Department's construction camps;
- (b) Live at one of the hotels or boarding-houses;
- (c) Acquire some land and build for themselves;
- (d) Arrange with some business man in the town to erect a dwelling and lease it.

In a growing township with an assured future (c) abovementioned probably would be the most satisfactory course to follow. All the land sold to date, however, has been made available under Perpetual Lease tenure, and Lands Officials are precluded from acquiring any such land in the districts where they are working. This restriction would need to be abrogated in so far as one town residential allotment is concerned.

#### ACKNOWLEDGMENTS.

I.—
Acknowledgment for assistance.

Mr. A. Hollingworth, Clerk in Charge of the Land Settlement Inquiry Section, acted as Secretary to the Board for the purposes of this Investigation. Mr. F. Williamson (*Hansard* staff) acted as Official Reporter.

It is due to these Officers that we record our appreciation of the ability and industry with which they discharged their duties.

W. L. PAYNE, Chairman,
A. G. MELVILLE,
F. D. POWER,

Members of the Land
Administration Board.

#### Appendix A.

[Extract from "London Times" of 14th September, 1938.]

## IMPERIAL AND FOREIGN NEWS—SETTLEMENT IN AUSTRALIA.

#### (From our Perth Correspondent.)

It is more than a year since Mr. M. F. Troy, after his appointment as Minister of Lands and Group Settlements, toured the group settlement areas of Western Australia and aequainted settlers with the policy of his Government. An article, published immediately after in "The Times," outlined his difficulties and the prospects of the group settlement experiment at that date. It was said that there seemed little likelihood that the scheme would prove a financial success within a measurable period, but it was suggested that it might be the less tangible results of the most ambitious of all Australia's settlement schemes that would justify it in the long run.

Since that date a new executive Board to control the scheme under the Minister has been appointed; much bad land, hastily selected at the scheme's initiation, has been abandoned; and the number of holdings has been correspondingly reduced. Last year Mr. Troy made his announcement of policy to approximately 2,300 settlers: this year he has made another important statement to the bare 1,700 remaining. In the interval rather more than 600 settlers have given up their holdings. The reclassification of holdings was undertaken with the object of giving every settler who remained under the scheme a good opportunity of becoming a self-supporting and independent dairy farmer. This reclassification was completed several months ago, but the number of settlers who are self-supporting or independent seems, unhappily, to be as small as ever. The taxpayers in Western Australia strongly wish to see expenditure on group settlements very much curtailed, and Mr. Troy's new announcement of policy reflects this desire.

#### COST OF SCHEMES.

Exact figures are not at the moment available, but it is known that the total expenditure up till now upon group settlement in Western Australia (including roads and drainage) is about £7,500,000. Seventeen hundred settlers remain, none of whom is yet wholly independent of the taxpayers' help. The average amount to be spent on each of the remaining holdings must therefore probably exceed £4,000. The unfortunate Peel Estatean area close to Perth which has proved quite unfit for settlement-has cost approximately £2,250,000, and there are only 180 settlers left on it; so it is unfair to average the expenditure over all areas. None the less, there are holdings in other areas, which have cost between £5,000 and £6,000, which are not yet supporting their settlers. Western Australia, with a total population of less than 400,000 and a total taxpaying population of less than half that number, cannot continue to carry so heavy a load for results so scanty.

These facts prompted the Minister (advised by the Group Settlement Board) to announce his new policy recently to a meeting of settlers. The Cabinet will decide on the amount of capitalisation upon which each settler is to pay interest and ultimately principal; and settlers will receive no further advances for routine

farming operations as soon as they reach the standard of productivity represented by the possession of ten cows. It has been shown that the average amount expended in developing each holding under the scheme exceeds £4,000. So heavy an expenditure is the direct result of the policy of paying settlers for the development of their own holdings, as if they were labourers on a basis of weekly hire. Some such scheme was inevitable, inasmuch as it was necessary to give settlers some means of support until their holdings should become reasonably productive; but in practice the system has proved both pernicious and disastrous. Settlers have failed to realise that the properties they were farming were ultimately to become their own, and have been obsessed by consideration of the amount of "wages" that could be earned week by week and month by month. The system produced a state of mind which regarded payment for farming operations accomplished as more important than the development of holdings which should have been looked upon as personal property.

#### A HEAVY LOSS.

But no holding under the scheme can be expected to return, even in the hands of a capable dairy farmer with his heart in the job, interest upon a capitalisation of £4,000. The Cabinet will probably write off approximately three-quarters of the total expenditure on group settlement. A loss of between £4,500,000 and £5,000,000 is a very grave matter to the taxpayers of a small community, but it might be faced with relative equanimity if the 1,700 remaining settlers were finally established. They are not yet finally established, and it is only too likely that a number of them will abandon their holdings, as 5,000 of their predecessors have done, when they learn the exact figure upon which they have to pay interest. It will be very difficult to find men to put in their place, as it would be futile to put inexperienced men upon developed holdings, and almost impossible to get experienced men to take up holdings which at best can show only a bare margin of subsistence when interest has been paid on a capitalisation which will still be unduly high in comparison with market values.

Assistance to settlers is to cease when they have ten cows, and thereafter only such developments will be subsidised as are likely to result in permanent improvements of the holdings. Money is advanced on these conditions to new settlers by the Agricultural Bank of Western Australia, and the original Group Settlement Act provided that group settlers should be transferred to the control of the Agricultural Bank when they had reached an unspecified stage of productivity. It is now intended to keep "ten cow" settlers under the Group Settlement Board on Agricultural Bank conditions. The proposal is an improvement on the original, for the Group Settlement Board has ample dossiers about both settlers and holdings.

The Ministry will be open to serious criticism if costs are permitted to mount again after this readjustment. For seven and a-half years the holdings have been continuously developed in such matters as clearing, fencing, and draining, and there should not now be many more improvements of that kind to be done on a large scale.

## Appendix B.

RETURN OF OPERATIONS AT THE MUNDUBBERA BUTTER FACTORY (THE MARYBOROUGH CO-OPERATIVE DAIRY ASSOCIATION LIMITED) FOR THE YEAR 1928.

		М	onth.		a.	Butter Manufactured.	Amount paid Suppliers.	Price per lb.	Number of Suppliers.
January February March April May June July August September October November					 	Lb. 318,810 275,322 272,102 175,310 129,928 88,062 90,710 105,970 111,462 122,491 178,870 240,536	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	s. d. 1 1 1 2 1 3 1 2 1 4 1 4 1 6 1 6 1 5 1 5	571 598 582 563 537 516 498 524 542 553 600 609
	T	otal			 	2,109,573	134,703 4 3		
	М	onthly	averag	ges	 	175,7973	11,225 5 41		557.75

## Appendix C.

#### ALPHABETICAL LIST OF WITNESSES.

	Nam	ne of Wi	tness,					Approximate Area Interested in.	Place at whi Evidence Giv	Page of Evidence.
Anger, Charles Augustus								Acres.		
Anskenewiz, Heinrich								6,000	Monto	 272
	1.0							250	Abercorn	 144
Anskenewiz, Waldemar Ad								352	ditto	 143
Arneil, James								1,190	Goovigen	 651
Ashton, Percy								343	Mulgeldie	 214
Avard, James Justin								520	Eidsvold	 78
Avis, Joseph Lawrence				٠.				348	Mulgeldie	 194
Bailey, Aubrey Frank Char	les							1 000	D.1 .1	(0.9)
Bailey, Norman								1,088	Biloela	 483
Bailey, Thomas Guthrie								407	Waratah	 422
Baldwin, Arthur Egbert								1,100	Monto	 289
Bale, Horace Arnold Victor								296	Kalpowar	 347
Ball, Henry								197	Goovigen	 642
D. H. T. I.								688	Kalpowar	 358
D.H. T. 1								1,490	ditto	 359
Barbour, Henry Albert								710	ditto	 361
Barlow, Daniel Joseph								1,395	Waratah	 421
Barrott Colin Street								300	Goovigen	 646
Barrett, Colin Stuart (per S	tuart		ew Bar	rett)				2,470	Thangoe!	 549
Barrett, Stuart Andrew								7,500	ditto	 549
Bartlett, William Henry								557	Abercorn	 139
Basson, Edward James, on	behal	f of J	ımieson	Group	)			719	Mulgeldie	 186
Bassett, Frederick								380	Mundubbera	34
Bate, Arthur Garfield Tuck	er							259	Monto	 237
Batten, Arthur								727	Mundubbera	 13
Bayntun, Felix Frederick								620	Eidsvold	82
Beaton, William								319	Waratah	 398
Beck, Martin Petersen								581	Eidsvold	 73
Becker, Ernest Valentine								800		
Bell, Percy James								486	Abercorn	 157
Benecke, Johann Theodor	Freder	rielz Ch	n I					466	Mulgeldie	 184
Bestmann, John Henry, \	Vater	Finde	r Dan	4	4 6 13	ublic E	ouds.	+00	Abereom	 126
Dermit, France Inawaid, In	igmeer	r, mn	lie Esta	te Imr	WOWAN	out Sa	ands		Biloela	 493
Department of Lubile	Land	ls		ice iiii	иотен	ent nec	tion,		ditto	 503
Bickhoff, Francis Joseph								24.	99	0.7
Birch, Phillip								244	Goovigen	 629
Birse, Alexander								645	Biloela	 462
Birse, Arthur William								324	Kalpowar	 345
Black, William James								332	ditto	 355
Blee, John Edward								764	Eidsvold	 69
Boon, George Herbert								375	Mundubbera	 49
Bowles, Ernest Allen								200	Thangool	 554
Bradley, George Herbert								403	Kalpowar	 353
Brennan, Patrick								350	Biloela	 432
Bridges, Ernest Henry								247	Monto	 256
Briggs, John William.								726	Abercorn	 160
Brock, Gerald James								214	Jambin	612
Brown, Cyril Oswald								298	Goovigen	 644
Brown, James								254	7317 1	
Brown, Robert Edward								243		 490
mown, nobert Edward		٠.						282	Goovigen	 647
								202	ditto	 645

	Nam	e of Wi	tness.					Approximate Area Interested in.	Place at which Evidence Given.	Page Evider
Bryans, Edward James								Acres.	Waratah	39
Budahn, August								221	Q t	63
ulow, August Herman								149	34 1 11	20
utler, Andrew, for But	ler G		John	H. Fal	kiner,	and .	James	1,609	Jambin	60
Richard Wood								<b>=</b> 240	1711	
ysshe, Percy Shelley	• •	• •	• •			• •		7,248	Eidsvold	
ley, Walter								640	Abercorn	18
lder, Robert James, Ins		, Agric	eultural	Bank						40
mpbell, John Gordon Le								50,000	Jambin	5
mpbell, William Blair								7,000		58
rmody, Charles Stanisla vanagh, Bartholomew								373 215	1244 -	29
vanagh, John								251	To see In the	5
vanagh, Patrick Joseph								247	3'44.	5
amber of Commerce								Deputation	3.5	3:
andler, Alfred								397		4:
apman, David : also on tion	behal	f of Mu	ılgeldie	Local I	Produc	ers' A	ssocia-	226	Mulgeldie	19
apman, Harry								157 1,198	35	4-
etter, Richard Edward								250	Biloela	4
arke, William Henry								249	ditto	4
ewley, Archibald Josiah								1,023	Waratah	
uff, Clarence James								473		2
llingwood, Isaac Thoma								275		3
llingwood, Stanley Hard					• •			352		4
llins, Robert William						• •		430 550	3344	1
nnolly, Willian								210	7011	5
ok, Herbert								166	3.6	2
ok, John Leslie								433	3244	2
ok, Leslie John								380		2
oper, James								304		6
star, John Arthur								170		5
stello, Frederick								640 231		1
ulson, James							• •	159	Mr. 11.11.	5
oulston, Alwyn ox, George Robert								270	Nr .	29
iff, Charles								302	3244	2
illen, John Arthur								320		5
illwick, Wilfred								217		20
rrier, Michael Frederick			• •					1,192	A 1	1
aetz, Sterling Harold								6,900	ditto	15
aft, Thomas								320	Waratah	4
htler, Frederick George								575	ditto	39
widson, Joseph James M								176		2
llar, Charles James								178		49
ent, Thomas								324 206		4
ckenson, Charles								338	TZ - 1	5:
cker, Albert Thomas ngle, Roy George								3,200	A 1	3
bson, Alfred Henry								185	Consider	6
cherty, Michael								355	Monto	24
nald, Early William								643	Goovigen	63
ugall, Andrew George								307	Waratah	4
ugall, Roy Lewis								290	3313	4
yle, Felix Frederick								622		
inkwater, Harold Frank		• •			• •			648 4,040	A 1.	1:
ncan, Horace Muir nn, Thomas								361	TZ - 1	3
wards, Samuel gerling, Phillip Fritz								246 786		6
iott, Francis David								216	Biloela	5
iott, Robert James, on l								5,836		30
nerson, David	10 03	VF 11	1' - T -	. 1 D				198	36 1 11'	30
nery, Jesse, also on beha posito, Salvatore, on b	pehalf	Fran	esco l	Raschell	la and	Assoc l Nice	odemo	169 278		1:
Mazzone ans, Rupert Sydney Alle								852		
erett, Ernest Willie, Ins	pector	Agrie	ultural	Bank	• •				ditto	10
		е						• 634		
lconer, John Frederick E	Drown							0.00		41
								302		
rquharson, Frederick Jan her, William Arthur				• •				500	Waratah	. 4:
ming, James Patrick	mes 	• • • • • • • • • • • • • • • • • • • •						500 373	Waratah Biloela	45
rquharson, Frederick Jan her, William Arthur ming, James Patrick	mes							500	Waratah Biloela ditto	4:

Appendix and the second				PP	on un	• 00.				
	Nai	me of V	Vitness.					Approximate Area Interested in	Evidence Given.	Page of Evidence
								Acres.	Du L	440
Giles, Clifford Gorring Giles, John Victor (per (	Wifford	C a mail	on Cilon					1,000 1,930	Biloela ditto	448 448
					• •			189	Jambin	610
Gooch, Gordon Victor N	inham							350	Monto	252
Goode, Cedric Fraser								619	ditto	293
Goody, Hector Clyde								1,209	Waratah	406 419
Goody, Marshall Grant, Frederick	• •					* *1		627 238	ditto	193
Grant, Frederick Gray, Ashton John								196	Biloela	472
Grenier, Ernest Pannell,	Land Co	ommis	ssioner, (	Gayno	lah				Eidsvold	109
Hamilton, Robert; also	as Chair	ınan,	Eidsvol	d Shir	re Cour	neil	{	503	Eidsvold ditto	53 114
Hamilton, Reginald Jame							ſ	640	Abercorn	176
Hampson, Frederick Ral	oh							1,280	Monto	263
Hannay, Elliott William	Davidso	on						1,650	Abercorn	136
Hanvin, Daniel Joseph								244	Monto	228
Hardwick, Francis Willia Harris, Henry Leslie								159	Thangool	558
Harris, James William		• •						540 444	Monto Waratah	$\frac{283}{388}$
Havilah, George							• •	220	Mulgeldie	226
Hay, Daniel Stewart								1,630	Kalpowar	357
Hayden, Henry Hyland								333	ditto	350
Heading, William Arthur								566	ditto	337
Heathwood, Robert Samu Henderson, Inglis John								850	Waratah	409
Hickey, John Michael								107	Kalpowar	371
Hickey, Patrick Francis							• •	$\frac{197}{266}$	Biloela	443 379
Hill, Cecil Stanley								263	Monto	251
Hobson, Herbert Edward								320	Biloela	455
Hogg, William Dickson								255	Kalpowar	378
Horn, John								917	Eidsvold	102
Houreld, Harry Howes, Reginald James								295	Monto	285
Hundtoft, Jacob								237	Thangool Jambin	548
Hunting, Ernest George							- :: 1	251 30	Monte	613 287
Hunting, Thomas Joseph							- 111	640	Kalpowar	370
Hunting, Vincent William								530	Waratah	425
Hutchinson, John						• •		260	Mulgeldie	181
Iredale, Tom George						• ,		283	Biloela	468
Jackson, Edward Dunlop								401	Waratah	404
Jackson, Elijah James, John Edward								304	Thangool	534
Jameson, John				٠.				303	Eidsvold	149
Jamieson, Thomas Henry								177	Goovigen	653
Jamieson Group, per E. J.	Basson	١						280 719	Jambin Mulgeldie	583
Jarvis, Clarence Frederick								740	16 .	186
Jarvis, William								270	Dileala	273 492
Jones, Aubrey Edward								4,200	Eidsvold	104
Jones, Lemmewell Joyce, Fitzpierce								338	Mulgeldie	191
Joyce, Fitzpierce	• •	• •	• •	• •		• •	••	1,280	Eidsvold	96
Kennedy, John								2.200	Abana	
Keunne, Ernst August								2,388 600	Abercorn	137
Keys, Arthur							• •	202	Mundubbera Jambin	18
King, Percival Walter								618	Abonconn	609
King, Selwyn Moore Kircher, Michael								215	Goovigen	151 640
Kircher, Michael Kirkham, Ernest William		• •						714	Waratah	416
Krause, Charles William								311	Jambin	580
Kuhnert, Karl Julius								320	Thangool	566
Kurtz, James William							• •	575 160	Abercorn	162
						• •	• •	100	Thangool	556
awson, James Gilbert								660	Kalpowar	0.00
Lehr, Phillip Henry Leonard, Herbert Cyril								570	dist.	351
Lewis, Cyril		• •							Monto	376
Litzow, Adolph	• •		• •						Mulgoldia	$\frac{268}{215}$
ocal Producers' Association	on					٠.	) (	311	ditto	215
Ditto								Deputation	Biloela	515
Ditto								ditto	Goovigen	656
Ditto								ditto	Jambin	615
Ditto								ditto	Kalpowar	381
Ditto (per D. Chapman									Monto	309
ocal Producers' Association occurrence occur								Deputation	Mulgeldie	197
doy, Damer James		• •		٠.					Goovigen	570
•									Goovigen	652

				-PP-II	uix O	—cont	inucu	•		
	Name	e of Wi	iness.					Approximate Area Interested in.	Place at which Evidence Given.	Page o Evidenc
Confedence No. 1 A . 1 . 2 . 1 . 1								Acres.	200	
lacfarlane, Neil Archibald lack, Alfred John		• •	• •					289	Biloela	48
ack, Alfred John alone, Denis Sylvester	1.			• •				191 438	Monto	241
alone, Thomas				• •				331	1111	230
arshall, James John								1,675	Kalpowar	350
arshall, Rupert Oswald								239	Monto	25'
thison, Herbert Hastings								357	ditto	26
eagher, William								171	Jambin	60
charry, Andrew Stewart								335	Waratah	39
eredith, Charles Thomas iller, Lawrie Douglas								328	Mundubbera	3
ore, Patrick								1,619	Monto	27
ore, Stephen Henry								$\frac{237}{244}$	ditto	28 30
orante, Alfred Charles								118	ditto	23
ouatt, Graham Buchanan								580	ditto	28
uir, William								9,440	Mundubbera	
ıller, Paul								395	Monto	28
yles, David Charles								1,111	Kalpowar	37
yles, Edward	• •	• •	• •	• •	• •	• •		633	ditto	33
cCallum, Robert Alexand	er							832	Eidsvold	8'
cCarthy, Stephen								304	Thangool	56
Cord, Charles Edward K								25,160	Eidsvold	10
Cubbin, May Emma, for			liott M	eCubbii	1			388	Mulgeldie	21
Guigan, John Richard								226	Waratah	41
EInnes, John Kenzie, Edward John				• •				334	Monto	27
Kinnon, Peter							• •	$-333 \\ 215$	ditto	30 25
Lennan, William								320	M	4
Rae, Christopher Albert								280	Biloela	47
Rae, Godfrey Francis								303	ditto	47
Rae, Francis Murdo								343	Mulgeldie	21
Robbie, Alexander				• •	• •			183	Goovigen	64
ldrett, George William orris, Frank								335 230	Monto Goovigen	25 63
perg, Malcus William								205	Abanaan	15
Brien, Thomas						• •		395 318	Abercorn	150 430
Dwyer, Phillip								554	A 1	16
le, James Gordon								253	Mulgeldie	18
rker, Thomas Arthur						, .		279	Biloela	45
roz, William Charles								190	ditto	43
achy, Burgest James	٠.							350	Monto	28
acock, Charles Edgar arce, Richard								311	Goovigen	64
377'11'					• •			218 232	Jambin	59
nberthy, Bert			• •					300	ditto Thangool	59 56
rry, Thomas Alexander							• •	1,960	13: 1 1 1	9
rshouse, Stephen Bradney								265	Jambin	60
ters, Henry								274	Jambin	59
tman, Josiah Arthur								640	Biloela	48
pe, John Sydney								207	ditto	48
rter, Leonard Cyril								153	Goovigen	65
wer, Eric James		٠٠.						498	Monto	29
wer, Francis Michael								150	Mulgeldie	18
wer, James wnall, John Downman				• •				453	Monto	29
wnall, William Thomas	• •	• •		• •			• • • )	16,800	Eidsvold	10
mag Otto								650 189	Kalpowar	36
ce, Percy								227	Jambin	63 61
t. TT T									Thangool	56
well, Thomas Ashley Jan			• •					410	Kalpowar	35
arrie, Percy Alma								206	Biloela	46
del, Alfred Adolf								223	Mulgeldie	20
lph, Joseph Heli								252	Jambin	59
shleigh, Francis Edward								654	Eidsvold	8
inke, John Frederick								230	Mundubbera	2
ce, Arthur	• •							590	Eidsvold	6
ckards, Morland Hubert dgway, Nathaniel James	• •	• •					• •	2,227	Mundubbera	2
		• •						215	Monto	29
			• •					550	Monto	29 27
77.1 1.01 1										
mey, Edward Charles							• •		77 1 .	
gney, Edward Charles gney, Thomas Patrick	• •							505 297	Kalpowar Mulgeldie	33:

	Nan	ie of W	itness.					Approximate Area Interested in.	Place at which Evidence Given.	Page Evide
Rose, Valentine								Acres.	Abercorn	. 1
Russell, Edward Alexander	r							180	Thangool	_
								280	ditto	~
Ryan, John Valentine	• •							215	Monto	0
ander, Carl Johan								1,097	Kalparran	. 3
chaper, Alfred Ernest								1,012	Kalpowar By letter	0
chuenemann, Ernest								305	10'	0
chunemann, Adolf								304	Thangool	~
chuurs, Jan William Fred								1.010	Kalpowar	4)
ecker, Frederick George								332	Jambin	0
ecker, William Alfred								251	ditto	0
haw, James Alexander								366	Goovigen	C
neehan, Patrick Maurice								496	Waratah	4
helton, Cornelius								241	Biloela	. 4
nire Council								Deputation	Eidsvold	
lverthorne, Duncan								331	Biloela	
mpson, Joseph Alexander	۲							160	Thangool	. 5
ack, Eric George								949	Abercorn	
nith, George James								713	ditto	
nith, Henry John								7 400	Eidsvold	
nith, James Osborne								1,489	ditto	
nith, Joseph				• •				806	Mundubbera	91
nith, Norman William aith, William Hardidge	• •							590 1,188	Waratah	21
aatz, George Carl Frieder	ded.							235	Mulgeldie	0.1
eger, Charles Wilfred	ien						• •	351	Mr. 11.11	7.4
ephens, George								604	Manta	0.0
tton, Robert Stevin								256	Biloela	4.1
veet, Samuel							::	275	Waratah	4.4
ilty, John								550	Kalpowar	30
inzer, Arthur								540	Abercorn	16
aylor, Harry Bernard								380	Waratah	39
ylor, John Henry Tuke								3,536	Eidsvold	10
nompson, William Arthur		Darle		D:				360	Thangool	55
nomson, Sydney, Land Ra					rict			005	ditto	51
nurgar, John Edward							• •	235 2,030	Mulgeldie	22
owers, Alfred Henry aill, Thomas Fotheringha	nie.		• •					2,030	Abercorn	14
att, William Henry		• •		• •				320	Abercorn	13 28
icker, Henry John							'	187	D211	48
rner, David							::	157	Jambin	59
irner, Morris								308	Mulgeldie	21
re, William Edward								900	Abercorn	14
TO 1.1								0==	TO I	
onn, Daniel								255 340	Thangool	55
							: 1	235	Dilasla	45
vian, Guy		• •	• •					200	DHOER	4:
allace, Victor Clarence								322	Goovigen	6-
alter, John Henry								450	Monto	26
alton, Richard								240	ditto	23
arren, Darcy Richard								293	Waratah	40
atson, Thomas							• • •	188	Goovigen	65
ebb, Harry George William		• •					• • (	463	Mulgeldie	22
ells, Archibald James					• •			914 342	Monto	2
ells, James Underwood								315	1:44 -	28
endt, Arthur								3,736	ditto Abercorn	24
endt, William Charles								488	Wonatab	14
est, John								6,270	A 3	1:
nyte, William								435	1:44 -	16
ckham, Ernest Albert								329	Convince	6
llcox, Gerald Norman								280	Biloela	45
lliams, George								. 923	Eidsvold	1
lliams, George John								500	Waratah	40
lson, Wilfred								264	Jambin	60
ood, George James								520	Waratah	40
oodall, Michael John								177	Biloela	48
oodbridge, Joseph								267	Kalpowar	37
odford, Samuel Percival ilf, Ernest Richard								174 352	Mulgeldie	18
,									monto,	2
ung, Gregory			• •			• •		7,000	Eidsvold	10
man, Eric Wesley								2,890	Abercorn	
man, Arnold Raymond								2,890 5,339 309	Abercorn Eidsvold	6

## Appendix D.

R	OSEI	BANK 1	RAIN	FAL	L RE	CORDS.		Date.				nfall.		Total.		
Supplied t								July-			In.	Pts.				
Distri		nosena.	шк, .	izaipe	war,	Opper	Burnett	2nd			0	13				
Distri	C U.	37	T					10th			0	48				
		Y EAR	ELY R								-	_	2 day	s 0 in	ì.	61 pts
			]	Days.	I	nches.	Points.	August-								
1908				50		35	26	2nd			0	78				
1909				72		35	31	6th			0	45				
1910				70		31	15	23rd			0	11				
1911				67		33	98				_	-	3 day	s 1 in	1.	34 pts
1912				59		24	69	September-								
1913				63		40	5	2nd			0	3				
1914				65 -		28	59	6th				48				
1915				54		21	70	13th				5				
1916				88		37	46	10(11			_		3 day	s 0 in	1.	56 pts
1917				68		34	72	October-								
918				63		40	11	11th			0	34				
1919				42		13	74	12th				43				
920				67		31	31									
921				91		40	31	13th				17				
1922				57		31	2	18th			0	78	4 day	e 1 i		72 pts
923				51		23	12	N					4 day	0 1 11		· L pts
924				70		42	38	November—				0.0				
1925			• •	63		32	12	9th				60				
1926		• •						28th			1	39	0 1			00 '
927		• •	• •	51 82		28 46	28					_	2 day	s 2 in		99 pts
							31	December—								
1928				85		45	21	1st			0	4				
								10th			0	13				
		Dai	LY R	INFA	LL.			11th			0	1				
			190	8.				12th			0	3				
Dat	P		Rainf	211		Total.		26th			0	56				
500			In. P			I Utal.		27th			0	15				
January—			111. 1	us.									6 day	s 0 in	ı.	92 pts
2nd			0.3	5				F13 - 4 - 3	e e	10			70.7	07 :		00 1
													50 day	s 35 in	١.	26 pts
9th			0.2					10001	for ye	7d1 10	00		oo aag			•
9th 10th			0 2	9					tor ye	5d1 15	_					
10th			0.7	9 8				-	TOI YE	zai 15	_	909.				
10th 11th			0 7 1	9 8 3				January—	101 /6	sai is	19	909.				
10th 11th 29th			0 7 1 1 6	9 8 3 0				January— 6th			0	909. 38				
10th 11th			0 7 1	9 8 3 0	dave	4 in	45 nte	January— 6th 16th			0 0	38 89				
10th 11th 29th 30th			0 7 1 1 6	9 8 3 0	days	4 in.	45 pts.	January— 6th 16th 17th			19 0 0 1	38 89 4				•
10th 11th 29th 30th			0 7 1 1 6 0 4	9 8 3 0 0 - 6	days	4 in.	45 pts.	January— 6th 16th 17th 18th			0 0 1 1	38 89 4 91				
10th 11th 29th 30th February– 10th			0 7 1 1 6 0 4	9 8 3 0 0 - 6	days	4 in.	45 pts.	January— 6th 16th 17th 18th 19th			19 0 0 1 1 0	38 89 4 91 57				-
10th 11th 29th 30th February— 10th 11th	-		0 7 1 1 6 0 4 1 6 1 5	9 8 3 0 0 - 6	days	4 in.	45 pts.	January— 6th 16th 17th 18th 19th 20th			19 0 0 1 1 0 2	38 89 4 91 57 22				
10th 11th 29th 30th Sebruary— 10th 11th 12th	-		0 7 1 1 6 0 4 1 6 1 5 2 2	9 8 3 0 0 - 6	days	4 in.	45 pts.	January— 6th 16th 17th 18th 19th 20th 21st			19 0 0 1 1 0 2 0	38 89 4 91 57 22 85				
10th 11th 29th 30th February— 10th 11th 12th 13th	- -		0 7 1 1 6 0 4 1 6 1 5 2 2 0 2	9 8 3 0 0 - 6 7 9 6 0	days	4 in.	45 pts.	January— 6th 16th 17th 18th 19th 20th			19 0 0 1 1 0 2 0	38 89 4 91 57 22				
10th 11th 29th 30th February— 10th 11th 12th 13th 19th	-		1 6 0 4 1 5 2 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0	9 8 3 0 0 - 6 7 9 6 0 0 5	days	4 in.	45 pts.	January— 6th 16th 17th 18th 19th 20th 21st 23rd			19 0 0 1 1 0 2 0	38 89 4 91 57 22 85	8 days			
10th 11th 29th 30th Cebruary— 10th 11th 12th 13th 19th 21st	-		1 6 0 4 1 5 2 2 2 0 2 0 2 3 8 8	9 8 3 0 0 - 6 7 9 6 0 0 5 4	days	4 in.	45 pts.	January— 6th 16th 17th 18th 19th 20th 21st			19 0 0 1 1 0 2 0	38 89 4 91 57 22 85				
10th 11th 29th 30th Cebruary— 10th 11th 12th 13th 19th 21st 23rd	- -		1 6 0 4 1 5 2 2 0 2 0 2 3 8 0 1	9 8 3 0 0 0 - 6 7 9 6 0 5 4 1	days	4 in.	45 pts.	January— 6th 16th 17th 18th 19th 20th 21st 23rd			19 0 0 1 1 0 2 0 0	38 89 4 91 57 22 85				
10th 11th 29th 30th Sebruary— 10th 11th 12th 13th 19th 21st 23rd 24th	-		1 6 0 4 1 5 2 2 0 2 0 2 0 3 8 0 1 0 3 3	9 8 3 0 0 0 - 6 7 9 6 0 0 5 4 1 1 4	days	4 in.	45 pts.	January— 6th 16th 17th 18th 19th 20th 21st 23rd February—			19 0 0 1 1 0 2 0 0 0	909. 38 89 4 91 57 22 85 95				
10th 11th 29th 30th Pebruary— 10th 11th 12th 13th 19th 21st 23rd 24th 27th	- -		1 6 0 4 1 5 2 2 2 0 2 0 2 3 8 4 0 1 0 3 0 1 0	9 8 3 0 0 0 - 6 7 9 6 0 0 5 4 1 1 4	days	4 iu.	45 pts.	January— 6th 16th 17th 18th 19th 20th 21st 23rd February— 2nd			19 0 0 1 1 0 2 0 0 0	909. 38 89 4 91 57 22 85 95				
10th 11th 29th 30th Sebruary— 10th 11th 12th 13th 19th 21st 23rd 24th	- - :		1 6 0 4 1 5 2 2 0 2 0 2 0 3 8 0 1 0 3 3	9 8 3 0 0 0 - 6 6 0 5 4 1 4 6 2				January— 6th 16th 17th 18th 19th 20th 21st 23rd February— 2nd 3rd			19 0 0 1 1 0 2 0 0 0 0	909. 38 89 4 91 57 22 85 95				
10th 11th 29th 30th 10th 11th 12th 13th 19th 21st 23rd 24th 27th 28th	- -		1 6 0 4 1 5 2 2 2 0 2 0 2 3 8 4 0 1 0 3 0 1 0	9 8 3 0 0 0 - 6 6 0 5 4 1 4 6 2			45 pts. 74 pts.	January— 6th 16th 17th 18th 19th 20th 21st 23rd February— 2nd 3rd 22nd			19 0 0 0 1 1 0 2 0 0 0 0 0 0 1 1	38 89 4 91 57 22 85 95 				
10th 11th 29th 30th 10th 11th 12th 13th 10th 21st 23rd 24th 27th 28th	- -		0 7 1 1 6 0 4 4 1 5 2 2 9 0 20 3 80 0 1 0 3 3 1 0 3 3 1	9 8 8 3 3 0 0 0 - 6 6 7 9 9 6 6 0 0 5 5 4 4 1 1 4 4 6 6 2 2 - 10				January— 6th 16th 17th 18th 19th 20th 21st 23rd  February— 2nd 3rd 22nd 23rd			19 0 0 0 1 1 0 2 0 0 0 0 0 0 1 0 0 0 0 0 0	38 89 4 91 57 22 85 95 —				
10th 11th 29th 30th 10th 11th 12th 13th 19th 21st 23rd 24th 27th 28th	- -		1 6 0 4 1 5 2 2 2 0 2 0 2 3 8 4 0 1 0 3 0 1 0	9 8 8 3 3 0 0 0 - 6 6 7 9 9 6 6 0 0 5 5 4 4 1 1 4 4 6 6 2 2 - 10				January— 6th 16th 17th 18th 19th 20th 21st 23rd  February— 2nd 3rd 22nd 23rd 24th			19 0 0 0 1 1 0 2 0 0 0 0 0 0 1 0 0 0 0 0 0	38 89 4 91 57 22 85 95 — 33 19 12 33 3		s S in		81 pts
10th 11th 29th 30th 10th 11th 12th 13th 19th 21st 23rd 24th 27th 28th	- -		0 7 1 1 6 0 4 4 1 5 2 2 9 0 20 3 80 0 1 0 3 3 1 0 3 3 1	9 8 8 3 3 0 0 0 - 6 6 7 7 9 9 6 6 0 0 5 5 4 4 1 1 4 4 6 6 2 2 - 10 5 5				January— 6th 16th 17th 18th 19th 20th 21st 23rd  February— 2nd 3rd 22nd 23rd 24th			19 0 0 0 1 1 0 2 0 0 0 0 0 0 1 0 0 0 0 0 0	38 89 4 91 57 22 85 95 — 33 19 12 33 3	8 days	s S in		S1 pts
10th 11th 29th 30th  Cebruary— 10th 11th 12th 13th 19th 21st 23rd 24th 28th Larch— 2nd			0 7 1 1 6 0 4 4 1 5 2 2 2 0 2 0 2 0 3 8 0 1 1 0 3 3 0 1 0 3 0 1 0 3 0 0 1 0 0 3 0 0 1 0 0 0 0	9 8 8 3 3 0 0 0 - 6 6 7 9 9 6 6 0 0 5 5 4 4 1 1 4 4 6 6 6 2 2 - 10 5 5 4				January— 6th 16th 17th 18th 19th 20th 21st 23rd February— 2nd 3rd 22nd 23rd 24th 26th March—			0 0 1 1 0 2 0 0 0 0 0 0 1 0 0 0 0 0 0 0	38 89 4 91 57 22 85 95 33 19 12 33 3 36	8 days	s S in		81 pts
10th 11th 29th 30th 30th 11th 12th 13th 19th 21st 23rd 24th 27th 28th Larch— 2nd 4th			0 7 1 1 6 6 0 4 4 1 5 2 2 2 0 2 0 2 0 3 8 0 1 0 3 3 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	9 8 3 3 0 0 0 - 6 6 6 0 0 5 5 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				January— 6th 16th 17th 18th 19th 20th 21st 23rd  February— 2nd 3rd 22nd 23rd 24th 26th  March— 2nd			0 0 1 1 0 2 0 0 0 0 0 0 1 0 0 0 0 0 0 0	38 89 4 91 57 22 85 99 33 19 112 33 36	8 days	s S in		S1 pts
10th 11th 29th 30th 30th 11th 12th 13th 12th 23rd 24th 27th 28th 1arch—2ud 4th 5th			1 6 6 4 4 6 1 5 5 2 2 2 0 2 0 2 0 3 8 0 1 0 3 3 6 6 2 2 5 6 6 6 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 8 8 3 3 0 0 0 - 6 6 7 7 9 9 6 6 0 0 5 5 5 4 4 1 1 4 4 6 6 2 2 - 10 5 5 4 4 2 2 4				January— 6th 16th 17th 18th 19th 20th 21st 23rd February— 2nd 3rd 22nd 23rd 24th 26th March— 2nd 4th			0 0 1 1 0 2 0 0 0 0 0 1 0 0 0 0 0 0 0 0	38 89 4 991 57 222 85 995 33 19 12 33 36 59 27	8 days	s S in		81 pts
10th 11th 29th 29th 30th 30th 11th 12th 12th 12th 23rd 24th 28th 4th 5th 6th 13th			0 7 1 1 6 0 4 4 1 6 6 1 5 5 2 2 2 0 2 2 0 2 2 3 8 1 0 3 3 1 0 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	9 8 8 3 3 0 0 0 0 6 7 7 9 9 6 6 0 0 5 5 5 4 4 1 1 4 4 6 6 2 2 - 10 5 5 4 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6				January— 6th 16th 17th 18th 19th 20th 21st 23rd February— 2nd 3rd 22nd 23rd 24th 26th  March— 2nd 4th 17th			0 0 0 1 1 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0	38 89 4 91 57 222 85 95 	8 days	s S in		S1 pts
10th 11th 29th 30th 30th 11th 12th 13th 19th 21st 23rd 24th 27th 28th 4th 5th 6th 13th 13th 13th	-		0 7 1 1 6 0 4 4 1 6 6 1 5 5 2 2 2 0 2 2 0 2 2 3 3 8 8 0 1 1 0 3 3 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	9 8 8 3 0 0 0 0 6 7 9 9 6 6 0 0 5 5 4 4 1 1 4 4 6 6 2 2 4 4 5 5 4 4 1 5 5 4 4 1 5 5 6 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				January— 6th 16th 17th 18th 19th 20th 21st 23rd  February— 2nd 3rd 22nd 22nd 24th 26th  March— 2nd 4th 17th 21st			0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	38 89 4 91 57 22 85 95 — 33 36 — 59 27 73 56	8 days	s S in		S1 pts
10th 11th 29th 30th 30th 11th 12th 13th 12th 23rd 24th 27th 28th 5th 6th 13th 14th 15th 15th 15th			0 7 1 1 6 0 4 4 1 6 1 5 2 2 2 0 2 2 0 2 2 0 3 8 8 0 1 0 3 3 6 6 6 2 2 5 0 5 5 5 6 1 2 2 1 5 5 6 6 6 6 7 1 2 5 1 5 6 6 6 7 1 2 5 1 5 6 7 1 5 6	9 8 8 3 3 0 0 0 6 7 9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6				January— 6th 16th 17th 18th 19th 20th 21st 23rd February— 2nd 3rd 22nd 23rd 24th 26th  March— 2nd 4th 17th			0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	38 89 4 91 57 222 85 95 	8 day:	s S in		81 pts
10th 11th 29th 30th 30th 12th 12th 12th 13th 21st 23rd 24th 28th 14th 5th 15th 15th 15th 15th 15th 16th 16th			0 7 1 1 6 6 0 4 4 1 6 6 1 5 5 2 2 2 0 2 2 0 2 2 0 3 0 1 0 3 3 0 1 1 0 3 5 6 6 6 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	9 8 8 3 3 0 0 0 6 7 9 6 6 0 0 5 5 4 4 1 1 4 4 6 6 6 5 5 4 4 2 2 4 4 5 5 5 6 4 6 6 6 6 6 6 6 6 6 6 6 6 6				January— 6th 16th 17th 18th 19th 20th 21st 23rd February— 2nd 3rd 22nd 23rd 24th 26th March— 2nd 4th 17th 21st 28th			0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	38 89 4 91 57 22 85 95 — 33 36 — 59 27 73 56	8 days	s S in		81 pts
10th 11th 29th 30th 30th 11th 12th 13th 12th 23rd 24th 27th 28th 14th 5th 6th 13th 14th 15th 15th			0 7 1 1 6 6 0 4 4 1 6 6 6 1 5 5 2 2 2 0 2 2 0 2 2 0 3 8 0 1 1 0 3 3 1 1 2 5 1	9 8 8 3 3 0 0 0 0 - 6 6 7 9 9 6 6 0 0 5 5 4 4 4 4 6 6 6 2 2 4 4 5 5 4 4 5 7 9 9 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	days	10 in.	74 pts.	January— 6th 16th 17th 18th 19th 20th 21st 23rd February— 2nd 3rd 22nd 23rd 24th 26th March— 2nd 4th 17th 21st 28th			0 0 1 1 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	38 38 4 91 57 22 85 95 33 19 12 33 36 59 57 27 77 73 56 56 57 57 57 57 57 57 57 57 57 57	8 day:	s S in		81 pts
10th 11th 29th 30th 2ebruary— 10th 11th 12th 13th 19th 2st 23rd 24th 27th 28th 4th 5th 6th 13th 14th 15th 16th 17th			0 7 1 1 6 6 0 4 4 1 6 6 1 5 5 2 2 2 0 2 2 0 2 2 0 3 0 1 0 3 3 0 1 1 0 3 5 6 6 6 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	9 8 8 3 3 0 0 0 0 - 6 6 7 9 9 6 6 0 0 5 5 4 4 4 4 6 6 6 2 2 4 4 5 5 4 4 5 7 9 9 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		10 in.		January— 6th 16th 17th 18th 19th 20th 21st 23rd  February— 2nd 3rd 22nd 23rd 24th 26th  March— 2nd 4th 17th 21st 28th  April— 3rd			0 0 0 1 1 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0	38 89 4 91 57 22 28 85 95 — 33 36 — 59 27 73 56 32 — 14	8 day:	s S in		81 pts
10th 11th 29th 30th 29th 10th 11th 12th 13th 13th 21st 23rth 28th Earch— 2nd 4th 5th 6th 13th 15th 15th 15th 16th 17th			0 7 1 1 6 6 0 4 4 1 6 6 1 5 5 2 2 0 0 2 0 2 3 8 8 0 1 1 0 3 3 1 0 1 0 0 3 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 8 8 3 3 0 0 0 0 - 6 6 7 9 9 6 6 0 0 5 5 4 4 4 4 6 6 6 2 2 - 10 5 5 4 4 4 5 5 5 6 5 6 6 6 6 6 6 6 6 6 6	days	10 in.	74 pts.	January— 6th 16th 17th 18th 19th 20th 21st 23rd February— 2nd 3rd 22nd 23rd 24th 26th  March— 2nd 4th 17th 21st 23th			0 0 0 1 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0	38 89 4 91 57 222 85 995 33 36 59 227 773 56 32 14 22	8 day:	s S in		81 pts
10th 11th 29th 29th 30th 11th 12th 12th 12th 23rd 24th 28th 14th 5th 13th 14th 15th 15th 17th 17th 17th 17th 17th 17th 17th 17			0 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 8 8 3 3 0 0 0 - 6 7 7 9 9 6 6 0 0 5 5 4 4 1 1 4 4 6 6 6 6 2 2 - 10 5 5 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	days	10 in.	74 pts.	January— 6th 16th 17th 18th 19th 20th 21st 23rd  February— 2nd 3rd 22nd 23rd 24th 26th  March— 2nd 4th 17th 21st 28th  April— 3rd			0 0 0 1 1 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0	38 89 4 91 57 222 85 995 33 36 59 227 773 56 32 14 22	8 day:	s S in		81 pts
10th 11th 29th 30th 20th 11th 12th 11th 12th 13th 19th 23rd 24th 28th 4th 5th 6th 13th 14th 15th 17th 17th			0 7 1 6 0 4 4 6 1 5 1 6 1 5 1 6 1 5 1 6 1 6 1 5 1 6 1 6	9 8 8 3 3 0 0 0 - 6 6 7 7 9 9 6 6 0 0 5 5 4 4 1 1 4 4 5 5 4 4 5 5 5 5 9 5 5 5 9	days	10 in.	74 pts.	January— 6th 16th 17th 18th 19th 20th 21st 23rd February— 2nd 3rd 22nd 23rd 24th 26th  March— 2nd 4th 17th 21st 23th			0 0 0 1 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0	909.  38 89 4 91 57 22 285 995 33 19 12 33 36 59 27 73 566 32 14 222 33	8 day:	s S in		81 pts
10th 11th 29th 29th 30th 11th 12th 12th 12th 23rd 24th 28th 4th 5th 13th 14th 15th 15th 17th 17th 17th 17th 17th 17th 17th 17			0 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 8 8 3 3 0 0 0 - 6 6 7 7 9 6 6 0 0 5 5 4 4 1 1 4 4 4 6 6 2 2 - 10 5 5 4 4 2 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5	days	10 in. 8 in.	74 pts.	January— 6th 16th 17th 18th 19th 20th 21st 23rd February— 2nd 3rd 22nd 23rd 24th 26th March— 2nd 4th 17th 21st 28th April— 3rd 7th 20th			0 0 0 1 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0	38 89 4 991 577 222 855 995 33 36 59 227 73 566 32 144 222 333 444	8 day:	s S in		81 pts
10th 11th 29th 30th 20th 11th 12th 11th 12th 13th 19th 23rd 24th 28th 4th 5th 6th 13th 14th 15th 17th 17th	-		0 7 1 6 0 4 4 6 1 5 1 6 1 5 1 6 1 5 1 6 1 6 1 5 1 6 1 6	9 8 8 3 3 0 0 0 - 6 6 7 7 9 6 6 0 0 5 5 4 4 1 1 4 4 4 6 6 2 2 - 10 5 5 4 4 2 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5	days	10 in. 8 in.	74 pts.	January— 6th 16th 17th 18th 19th 20th 21st 23rd February— 2nd 3rd 22nd 23rd 24th 26th  March— 2nd 4th 17th 21st 28th April— 3rd 7th 20th 21st 22nd			0 0 0 1 1 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0	909.  38 89 4 91 57 222 85 95 95 95 927 73 56 32 92 14 4 5	8 day:	s S in		81 pts
10th 11th 29th 30th 30th 12th 12th 12th 12th 23rd 24th 5th 6th 13th 14th 15th 15th 6th 17th 17th 17th 17th 17th 17th 17th 17	-		0 7 1 1 6 0 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 8 8 3 3 0 0 0 - 6 6 7 7 9 6 6 0 0 5 5 4 4 1 1 4 4 4 6 6 2 2 - 10 5 5 4 4 2 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5	days	10 in. 8 in.	74 pts.	January— 6th 16th 17th 18th 19th 20th 21st 23rd  February— 2nd 3rd 22nd 22nd 24th 26th  March— 2nd 4th 17th 21st 28th  April— 3rd 7th 20th 20th 21st			0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0	909.  38 89 4 91 57 222 85 95 95 95 927 73 56 32 92 14 4 5	6 day:	s S in	ile i	81 pts
10th 11th 29th 29th 30th 11th 12th 12th 12th 23rd 24th 28th 14th 5th 13th 14th 15th 15th 17th 17th 17th 17th 17th 17th 17th 17			0 7 7 1 1 6 6 0 4 4 1 6 6 1 5 2 2 2 0 2 2 0 2 2 0 0 3 3 8 0 6 6 6 2 2 2 0 5 0 9 3 1 2 2 1 6 0 7 7 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 0 9 6 0 9 6 0 1 6 0 3 0 9 6 0	9 8 8 3 3 0 0 0 - 6 6 7 7 9 9 6 6 0 0 5 5 4 4 4 6 6 2 2 - 10 5 5 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	days	10 in. 8 in. 2 in.	74 pts. 27 pts. 46 pts.	January— 6th 16th 17th 18th 19th 20th 21st 23rd February— 2nd 3rd 22nd 23rd 24th 26th March— 2nd 4th 17th 21st 28th April— 3rd 7th 20th 21st 22nd 27th			0 0 0 1 1 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0	909.  38 89 4 91 57 222 85 95 95 95 927 73 56 32 92 14 4 5	8 day:	s S in	ile i	81 pts
10th 11th 29th 30th 29th 10th 11th 12th 13th 19th 21st 23rd 24th 27th 28th 5th 6th 13th 15th 15th 16th 17th 2rd 4th 17th	-		0 7 1 1 6 0 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 8 8 3 3 0 0 0 - 6 6 7 7 9 9 6 6 0 0 5 5 4 4 4 6 6 2 2 - 10 5 5 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	days	10 in. 8 in. 2 in.	74 pts.	January— 6th 16th 17th 18th 19th 20th 21st 23rd  February— 2nd 3rd 22nd 22nd 24th 26th  March— 2nd 4th 17th 21st 28th ∴pril— 3rd 7th 20th 21st 22nd 27th			0 0 0 1 1 1 0 2 0 0 0 0 0 0 0 0 0 0 0 0	909. 38 89 4 991 57 222 85 595 33 36 59 27 73 56 32 14 5 49	6 day:	s S in	ile i	81 pts
10th 11th 29th 30th 29th 10th 11th 12th 13th 19th 21st 23rd 28th Earch— 2nd 4th 5th 6th 13th 15th 16th 17th 17th 17th 18th 11th 16th 17th 17th 19th 19th 19th 19th 19th 19th 19th			0 7 7 1 1 6 6 0 4 4 1 6 6 1 5 2 2 2 0 2 2 0 2 2 0 0 3 3 8 0 6 6 6 2 2 2 0 5 0 9 3 1 2 2 1 6 0 7 7 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 0 9 6 0 9 6 0 1 6 0 3 0 9 6 0	9 8 8 3 3 0 0 0 - 6 6 7 7 9 9 6 6 0 0 5 5 4 4 4 6 6 2 2 - 10 5 5 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	days	10 in. 8 in. 2 in.	74 pts. 27 pts. 46 pts.	January— 6th 16th 17th 18th 19th 20th 21st 23rd  February— 2nd 3rd 22nd 23rd 24th 26th  March— 2nd 4th 17th 21st 28th  April— 3rd 7th 20th 21st 22nd 27th  May— 25th			0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	38 89 4 91 57 22 85 95 95 95 95 95 95 95 95 95 95 95 95 95	6 day:	s S in	ile i	81 pts 36 pts 47 pts
10th 11th 29th 29th 30th 11th 12th 12th 12th 23rd 24th 28th 14th 5th 13th 14th 15th 15th 17th 17th 17th 17th 17th 17th 17th 17			0 7 7 1 1 6 6 0 4 4 1 6 6 1 5 2 2 2 0 2 2 0 2 2 0 0 3 3 8 0 6 6 6 2 2 2 0 5 0 9 3 1 2 2 1 6 0 7 7 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 3 0 9 6 0 9 6 0 1 6 0 3 0 9 6 0 9 6 0 1 6 0 3 0 9 6 0	9 8 8 3 3 0 0 0 - 6 6 7 9 9 6 6 0 0 5 5 4 4 4 6 6 6 2 2 - 10 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	days	10 in. 8 in. 2 in. 0 in.	74 pts. 27 pts. 46 pts.	January— 6th 16th 17th 18th 19th 20th 21st 23rd  February— 2nd 3rd 22nd 22nd 24th 26th  March— 2nd 4th 17th 21st 28th ∴pril— 3rd 7th 20th 21st 22nd 27th			0 0 0 1 1 1 0 2 0 0 0 0 0 0 0 0 0 0 0 0	38 89 4 91 57 22 85 95 95 95 95 95 95 95 95 95 95 95 95 95	6 day:	s S in		81 pts

ROSEI				L RECOR		tinuc	d.	Date		Rainfa In. Pts		Total.	
	DA	ILI I			inen.			February-					
T1-4			190					1st	 	0 10			
Dat	е.		Rainf		Total.			2nd	 	0 40			
~			In. P	ts.						0 11			
June-								10th	 				
1st			. 0 1	0				12th	 	0 19			
3rd			. 0 2	2				16th	 	0 8			
7th								20th	 	0 11			
10th								21st	 	0 3			
										0 2			
26th								22nd	 				
27th			. 0 -	4				23rd	 	0 26			
29th			. 0.20	6							9 days	1 in.	3 pts.
30th													
30111			. 0 /2		a 1 in	0.0		March-					
July-			-	- 8 day	S 1 111.	. 92	prs.	6th	 	0 10			
·			0 4					7th	 	0 27			
1st								10th	 	0 22			
2nd			0 60	0									
8th			0 19	9				14th	 	4 62			
16th								17th	 	0 29			
17th								18th	 	0 40			
								19th		0 30			
26th			0 18						 				
				- 6 day	s 2 in.	16	pts.	20th	 	2 29			
August—								24th	 	0 13			
7th			0 31								9 days	8 in	62 pts.
- 9th													- Iveo.
								April—					
15th								5th	 	0 37			
17th			0 27					25th					
22nd			0 15	;				2001	 	0 16	0.7		
24th											2 days	0 in.	53 pts.
25th								Мау-					
								17th		0 7	1 Jan	0 :	~ .
26th								11111	 	0 1	1 day	0 in.	7 pts.
28th			0 2										
30th			0 6					June-					
				10 days	3 in.	65	nte			1 0=			
September-				10 days	o m.	(),)	pres.	1st	 	1 85			
3rd			0 5					2nd	 	0 90			
8th								12th	 	0 6			
16th			0.70					17th	 	0 18			
			0 8					21st					
22nd			0.72						 	0 10			
0 . 1				4 days	1 in.	55	pts.	23rd	 	0 69			
October—								24th	 	0 16			
20th			0 29					25th	 	0 24			
22nd			0 77						 	0 -1	0 3		
26th			1 45								8 days	4 in.	18 pts.
27th			1 30					July					
30th			-0.83					6th		0.40			
				5 days	4 in.	64	nte		 	0 48			
November-				- 44,50		0.	1,63.	7th	 	0 80			
18th			0 60					16th	 	0 7			
								17th	 	0 54			
29th			0 81					18th	 	0.36			
			-	2 days	1 in.	41	pts.			-	5 days	2 in	25 pts.
December—												- 111,	To Drs.
1st			0 24					August-					
5th			0 40					2nd	 	0 23			
16th			0 52					31st		0 2			
								3	 	0 2	0 7		
17th			0 14								2 days	0 in.	25 pts.
18th			0 22					September—					
21st			0 10							0 770			
23rd			0.26					14th	 	0 72			
28th			0 8					15th	 	0 3			
								17th	 	0 19			
29th			0 79								2 Jen	0 .	0.4
30th			0 61								3 days	0 m.	94 pts.
				10 days	3 in.	36 1	ots.	October-					
								7th	 	0 2			
Total	for ye	ar 19	09	72 days	35 in.	31 1	ots.	Sth					
									 	0 7			
			1910.					9th	 	1 9			
January-			1010.					22nd	 	0 2			
13th			0 27					31st		0 13			
									 	0 19			
14th			1 71							-	5 days	1 in.	33 pts.
15th			0 35					November-					1.40
16th			0 36							0 4-			
18th			0 43					6th	 	0 49			
19th			0 70					7th	 	0 8			
21st			0 16					11th		0 18			
22nd			0 27										
23rd			0 31					22nd	 	0 25			
30th			1 26					26th	 	0 90			
31st			1 3					30th		0 24			
				11 days	6 in.	85 -	nte				<i>(*</i> 1		
				ar anis	o m.	1	rts.				6 days	2 in.	14 pts.

ROSEBA				RECORD		inued.	Date.			Rainfal In. Pts.		Total.	
	DAI	J. 103	1910		· a.		July-			-m. 1 (S.			
Date.			Rainfa		Total.		7th			0 20			
			In. Pts		ı otal.		15th			0 13			
December—			_11. 1 (8	•			19th .			0 25	0 3		W.O
5th			0 87				Angust				3 days	0 in.	58 pts.
6th			0 36		۵		August— 21st			0.21			
8th							22nd			0 34			
9th							23rd			0 61			
10th							201()	• •		0 64	3 days	1 in	59 pts.
11th							September-	- '			o days	1 111.	oo pis.
12th							23rd			1 0			
13th							30th			0 6			
23rd			0 21								2 days	1 in.	6 pts.
2014				9 days	2 in.	96 pts	October—			0 50	v		
Total	for v	ear 19	010	70 days	31 in	15 nts	- 1st 2nd			0 6			
					or m.	10 pts	6th			0 29			
							16th			0 4			
			1911				19th			0 57			
January—							20th			0 3			
4th			0 37				25th			0 22			
10th							29th			0 15			
11th											8 days	1 in.	86 pts.
12th			2 31				November—						
13th							14th			0 30			
14th			0 22				17th			0 24	0 1		
17th							December-				2 days	0 in.	54 pts.
18th			0 46				2nd			0 6			
19th			0 53				7th						
20th			0 35				9th		• •	0 89 0 55			
22nd			0 3				11th			0 48		•	
24th			0 9				17th						
26th			0 65				27th			0 71			
27th							-/ 11			2 26	6 days	4 in.	05 240
28th			1 15								o days	± 111.	95 pts.
29th							Total	for ye	ar 19	11	67 days	33 in	98 pts.
30th			0 13										
31st	٠.		0 68	10 Jane	11 3	~~ ··· t ·				1010			
February—				15 days	11 in.	or pts	January—			1912.			
1st			0 25				1st			0 65			
2nd	• •		0 6				2nd	• •		0 34			
3rd		• •	1 11				5th			1 31			
4th			2 81				6th			0 13			
5th			0 71				18th		• •	0 44			
6th			0 17				28th		• •				
7th			0 5				20(11	٠.		0 18	6 days	9	5
Sth			0 7				February-				o days	3 in.	õ pts.
12th			0 80				9th			0 23			
13th			0 74				10th			0 9			
14th							11th			0 19			
22nd	• •		0 10 0 32				12th			0 10			
23rd							14th			0 4			
2010		• •	0 19	13 days	7 in	38 pts	1.741			0 18			
March —				10 days	, 111.	oo pts					6 days	0 in	83 pts.
5th			0 24				March-						F
7th							1st			1 25			
			0 10				2nd			0 7			
21st		• •					3rd			0 12			
24th	• •		0 56				4th			0 5			
25th			1 45				14th			0 5			
26th		• •	0 38	6 days	9	00 4	15th			0 23			
April				o days	5 III.	22 pts.	· 20th			0 22			
April— 13th			0 7				21st			0 7			
17th	• •						27th			0 27			
	• •	• •	0 75				4				9 days	2 in.	13 pts.
18th			0 11	3 days	0 :	02 -4	April—						1
May-				3 days	o m.	93 pts.	9th			0 19			
			0.10				10th			0 4			
			0 12				Man				2 days	0 in.	23 pts.
16th		• •	0 10				May—						
16th 19th							5th			0 31			
16th		• •	0 8	9.3	0 .	0.0	No.						
16th 19th 21st				3 days	0 in.	30 pts.	6th			1 5			
16th 19th		• •	Nil.	3 days	0 in.	30 pts.	6th 29th				3 days		

ROSEBA							tinu	ied.	Date			Rainfa In. Pts		Total.	
	DAILY	: RA	INFALI		tinuce	<i>(1</i> .			February-						
Date.			1912 Rainfa		T	otal.			2nd			0 51			
mate.			In, Pt			Otter.			Sth			0 22			
une—			111, 1 (:	5.					10th			0 17			
5th			0 2						11th			0 25			
			2 75						18th	<b>4</b>		2 2			
9th									21st			0 8			
10th			0 52						23rd			0.39			
11th			0 46						25th			0 32			
12th			0.51									0 8			
23rd			0 55						26th			0 10			
24th			1 91						27th						
27th			-0 - 6						28th			0 8	11 days	1 10	99 ,
28th			0.31										11 days	4 111.	1
29th			0 3						March—			0.10			
				10 d:	ays	7 in	. 1	2 pts.	3rd			0 13			
								a I con	Sth			0 24			
uly-									13th			0 96	0 1	4 5	000
2nd			0 27										3 days	1 in.	00 }
3rd			0 12						April—						
4th			0 62						6th			0 86			
									12th			0 54			10
14th			1 35			0 .		<i>(</i> *)					2 days	1 in.	40 ]
				4 da	ays	2 in	. 3	6 pts.	May-						
									11th			0.25			
ngust—			0. 45						12th			0 44			
-1th			0 15						13th			0 42			
11th			0 10						23rd			0 25			
14th			0 15						25th			0 19			
				3 da	ays	() in	. 4	0 pts.	30th			0 31			
												0 62			
ptember-			0 10			0 .	-	0 1	31st			0 02	7 days	2 in.	48 1
19th		٠.	0 10	1 da	ay	0 m	. 1	0 pts.					1 days	_ III.	1.0 1.
									June-			0 =1			
tober-									21st			0 54			
13th			0.79						22nd			1 30			
21st			0 5						26th			0 45			
23rd			0 3						29th			0 67			
													4 days	2 in.	96 p
24th			0.58						July-						
25th			0 35						4th			0 14			
26th			0 10						14th			1 22			
27th			0.30						27th			0 17			
				7 da	lys	2 m.	. 2	0 pts.	28th			0 8			
ovember—									2.7111				4 days	1 in.	61 n
9th			0 75						August—						- I
		• •										Nil.			
21st		٠.	0 47						September-						
23rd			0 18						5th			0 11			
26th			0.33						21st			0 38			
				4 d:	1ys	1 in.	. 7.	3 pts.							
1									22nd			0 9			
ecember—									27th			1 27			
6th		٠.	0 22						28th			0 77	F 3	0.1	0.0
11th			0 29						0.1.1				5 days	2 in.	62 T
21st			0 7						October—			3711			
31st			2-55						Manage Land			Nil.			
				4 da	iys	3 in.	. 1.	3 pts.	November—			0 .			
									1st			0 4			
Total	for year	r 10	19	59 4.	ive	9.1 in	e.	0 1140	3rd			0 30			
10141	tor year	10		907 U	(1) y	-7 III.	. 0	pts.	15th			0.60			
									22nd			0 10			
			1913.						23rd			0 13			
													5 days	1 in.	17 ı
nuary—									December—						- 1
1st			0 96						5th			0 10			
2nd			0 25						11th			0 30			
5th			0 10						16th			0 5			
8th			2 83												
			0 9						17th			0 13			
9th									20th			1 93			
14th			0 25						21st			0 14			
15th			3 42						22nd			0 30			
16th			4 29						23rd			0 42			
17th			1 93						24th			0 25			
18th			1 18						27th			0 9			
21st			3 14						≥ / (II		• •	0 9	10 dos	9 :	77.1
22nd			0 11										10 days	3 in.	71
				10 1	110	10 .		5 pts.	/12 1	£	0011 70	1.9	00 3	4.=	
					1 V 25	1.7 111	1.3	a) Dits	10(31	TOLV	car 19	13	63 days	4(1) 111	5

ROSEBA	NK	RAIN	FALL	RECORD	S-cont	inue	d.	Date			Rainfa			Total.		
	DAI	LI K		L—continu	ed.			October-			In. Pt	s.				
T			191								0 5					
Date.			Rainfa	all.	Total.			6th			0 5					
T			In. Pt					7th			0 21					
January-								= 8th			0 58					
15th			. 0 20	)				9th			1 54					
18th								10th			0 8					
19th								11th			0 7					
21st								12th			0 40					
24th								17th			0 11					
	• •							18th			0 33					
25th			. 0 24										days	3 in.	37	nte
				6 days	2 in.	. 5	7 pts.	0					dajs	5 III.	01	pro.
February-								November-	-							
23rd								29th			0 .5	1	day	0 in.	5	pts.
24th								December-								
26th			0 21	l				7th			0 34					
27th			0 16	3.				17th								
28th											0 51					
				5 days	2 in	1	pts.	23rd			0 85					
Manak				, 0	J		1,40.	24th			0 95					
March-								28th			0 48					
1st			1 56	i				29th			0 28					
9th								30th			0 8					
10th								31st			0 98					
11th												Q	days	4 in	17	nto
25th								X.					udys	4 in.	47	pres.
								Tr. L	for	. 10	1.1	0.7	1.	00.1	**	
26th								Lotal	for yea	r 19	I±	65	days	28 in.	59	pts.
27th								1								
29th			0 40													
30th			0 40					F			1915					
				9 days	5 in.	74	pts.	January-								
A 21							resi	1st			0 28					
April—								5th			0 98					
9th			1 50					7th			1 6					
13th			0 34					13th			0 3					
15th								17th			0 9					
22nd								18th			0 52					
23rd																
2010	٠.		0 40	- 1		_		19th		٠.	0 4	_	,			
				5 days	3 in.	1	pts.					7	days	3 in.	0	pts.
May-								February-								
3rd			0 6					5th			0 20					
22nd								6th								
			0 26							٠.	0 35					
24th			0 9					Sth			0 30					
				3 days	0 in.	41	pts.	9th			3 15					
June-								17th			0 5					
5th			0 0 =					18th			0 60					
			0 35					19th			0 15					
7th			1 54					20th			0 2					
14th			0 24					21st			0 18					
_16th			0 20					23rd								
17th			0 77								0 19					
23rd								26th		٠.	0 68	1.1	1		0.	
25th			0 72									11	days	5 in.	87	pts.
26th								March-								
	• •		0 71								Nil.					
30th			0 7	0.3												
				9 days	4 in.	93	pts.	April—								
July-								5th			0 12					
			0 0					9th			0 2					
2nd			0 9					11th			0 79					
13th			0 13					12th			0 40					
27th			0 27													
30th			0 57					13th			0 10					
				4 days	1 in.	6	pts.	14th			0 37					
Angust							I	16th			0 5					
August-								23rd			1 18					
1st			0 9									S	days	3 in.	3	pts.
2nd			0 11					31					0			
				2 days	0 in.	20	nte	Мау								
				- days	0 111.	20	pts.	2nd			0 8					
September—								5th			0 39					
6th			0 4					15th			0 14					
9th								16th								
	• •	• •	0 27					10111			0 71	4	dores	1 .	20	
10th			0 2									4	days	1 in.	32	pts.
13th			0 22					June—								
			-	4 days	0 in.	55	pts.	8th			0 47	1	day	0 in.	47	nte
							-				-		7	· 11.	4.1	100.
D																

					CORD		onti	nued	!.	Date.			fall. Pts.	. 7	rotal.	
	DAIL	Y KA			ontinu	cu.				April—						
			191	5.						4th		 0	43			
Date.		]	Rainfa	ıll.		Total				6th			45			
			In. Pt	s.							• •	0	4			
July										9th						
2nd			0 24	Į.						11th			25			
9th			0 30	)						12th		 0	6			
15th			0 20							13th			82			
17th			0 60							21st		 0	4			
										25th		 0	13			
28th			0 8							30th		 0	6			
31st			0 4							ootn		 _		9 days	2 in.	28 pt
				6	days	1	in.	43	pts.					٠		-
\ugust—										May-						
1st			0 58	2						3rd		 0	46			
5th			0 37							6th		 0	73			
24th										7th		 0	30			
24111			0 5		Jores	1		0	man				_	3 days	1 in.	49 pt
				. 0	days	1	in.	U	pts.							•
September-										June-						
17th			0.0=	- 1	A	. 0	:	9.7	224	2nd		 0	20			
37 (11			0 27	1	day	U	in.	27	pts.	9th		 0	4			
										12th		 0				
October-												0				
20th			0 47							17th						
21st			0 5							21st		 0				
25th			0 18							28th		 0	72	0 1	1 .	0.1
		• •	0 10		days	0	in	70	nte			_		6 days	1 m.	94 pt
				J	unys	U		10	1,00.	Inly-						
November—										July-			- 0			
9th			0 13	:						12th		 0				
11th			0 4							20th		 2	7			
		• •								21st		 0	50			
26th			0 41							29th		 0				
28th			0 13							30th		0				
30th			0 97	'								 0				
				5	days	1	in.	68	pts.	31st		 0	58	C Jawa	2 :	40
December-														6 days	5 III.	42 pt
										August-						
11th			0 72							1st •		0	17			
16th			1 13													
20th			0 10	)						11th		 0				
28th			0.90							16th		 0				
29th			0 8							20th		 0	74			
2011			0 0		days	9	in.	0.9	pts.	30th		 0	11			
				- 0	uays		111.	90	prs.	31st		 0	27			
Total.	for m	10	1.5	E 4	3	0.1		=0				_		6 days	2 in.	7 pt
Total	101 ye	a1 19	10	0+	uays	21	111.	7.0	pts.	0 ( )				·		T
										September—						
										President						
			1910	 3.						2nd		 0	45			
anuary—			1910	5,												
anuary— 2nd										2nd 3rd		 0	35			
2nd			0 3							2nd 3rd 5th		 0	35 6			
2nd 3rd			0 3 0 23							2nd 3rd 5th 9th		 0 0	35 6 33			
2nd 3rd 4th			0 3 0 23 0 6							2nd 3rd 5th 9th 21st		 0 0 0 0	35 6 33 15			
2nd 3rd 4th 23rd			0 3 0 23 0 6 0 24							2nd 3rd 5th 9th 21st 22nd		 0 0 0 0	35 6 33 15			
2nd 3rd 4th 23rd 29th			0 3 0 23 0 6							2nd 3rd 5th 9th 21st		 0 0 0 0	35 6 33 15			
2nd 3rd 4th 23rd			0 3 0 23 0 6 0 24							2nd 3rd 5th 9th 21st 22nd		 0 0 0 0	35 6 33 15	7 days	1 in.	68 pt
2nd 3rd 4th 23rd 29th			0 3 0 23 0 6 0 24 0 5							2nd 3rd 5th 9th 21st 22nd 25th		 0 0 0 0	35 6 33 15	7 days	1 in.	68 pt
2nd 3rd 4th 23rd 29th 30th			0 3 0 23 0 6 0 24 0 5 0 24		days	0	iu		pts	2nd 3rd 5th 9th 21st 22nd 25th		 0 0 0 0	35 6 33 15	7 days	1 in.	68 pt
2nd 3rd 4th 23rd 29th 30th 31st			0 3 0 23 0 6 0 24 0 5 0 24		days	0	in.	95	pts.	2nd 3rd 5th 9th 21st 22nd 25th October— 5th		 0 0 0 0	35 6 33 15 11 23	7 days	1 in.	68 pt
2nd 3rd 4th 23rd 29th 30th 31st			0 3 0 23 0 6 0 24 0 5 0 24		days	0	in.		pts.	2nd 3rd 5th 9th 21st 22nd 25th		 0 0 0 0 0 0	35 6 33 15 11 23	7 days	1 in.	68 pt
2nd 3rd 4th 23rd 29th 30th 31st			0 3 0 23 0 6 0 24 0 5 0 24 0 10	7	days	0	in.		pts.	2nd 3rd 5th 9th 21st 22nd 25th October— 5th 6th		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	35 6 33 15 11 23 —	7 days	1 in.	<b>6</b> 8 pt
2nd 3rd 4th 23rd 29th 30th 31st 'ebruary— 3rd			0 3 0 23 0 6 0 24 0 5 0 24 0 10	7	days	0	in.		pts.	2nd 3rd 5th 9th 21st 22nd 25th October— 5th 6th 18th		0 0 0 0 0 0 0 0	35 6 33 15 11 23 - 4 4 4	7 days	1 in.	68 pt
2nd 3rd 4th 23rd 29th 30th 31st 'ebruary— 3rd 5th			0 3 0 23 0 6 0 24 0 5 0 24 0 10 0 70 0 28	7	days	0	in.		pts.	2nd 3rd 5th 9th 21st 22nd 25th October— 5th 6th 18th 19th		0 0 0 0 0 0 0 0 0 1 1	35 6 33 15 11 23 - 4 4 4 4 67	7 days	1 in.	<b>6</b> 8 pt
2nd 3rd 4th 23rd 29th 30th 31st Cebruary— 3rd 5th 6th			0 3 0 23 0 6 0 24 0 5 0 24 0 10 0 70 0 28 1 40	7	days	0	in.		pts.	2nd 3rd 5th 9th 21st 22nd 25th October— 5th 6th 18th 19th 23rd		0 0 0 0 0 0 0 0 1 1 1	35 6 33 15 11 23 4 4 4 67 2	7 days	1 in.	68 p
2nd 3rd 4th 23rd 29th 30th 31st Cebruary— 3rd 5th 6th 22nd			0 3 0 23 0 6 0 24 0 5 0 24 0 10 0 70 0 28 1 40 0 8	7	days	0	iu.		pts.	2nd 3rd 5th 9th 21st 22nd 25th October— 5th 6th 18th 19th 23rd 26th		0 0 0 0 0 0 0 0 1 1 1	35 6 33 15 11 23 4 4 4 67 2	7 days	1 in.	68 p
2nd 3rd 4th 23rd 29th 30th 31st ceruary— 3rd 5th 6th 22nd 23rd			0 3 0 23 0 6 0 24 0 5 0 24 0 10 0 70 0 28 1 40 0 8	7	days	0	in.		pts.	2nd 3rd 5th 9th 21st 22nd 25th October— 5th 6th 18th 19th 23rd		0 0 0 0 0 0 0 0 1 1 1	35 6 33 15 11 23 - 4 4 4 67 2 71	7 days	1 in.	68 p
2nd 3rd 4th 23rd 29th 30th 31st Cebruary— 3rd 5th 6th 22nd 23rd 27th			0 3 0 23 0 6 0 24 0 5 0 24 0 10 0 70 0 28 1 40 0 8 0 22 1 0	7	days	0	in.		pts.	2nd 3rd 5th 9th 21st 22nd 25th October— 5th 6th 18th 19th 23rd 26th		0 0 0 0 0 0 0 0 1 1 1 0	35 6 33 15 11 23 - 4 4 4 67 2 71			
2nd 3rd 4th 23rd 29th 30th 31st ceruary— 3rd 5th 6th 22nd 23rd			0 3 0 23 0 6 0 24 0 5 0 24 0 10 0 70 0 28 1 40 0 8	7	days	0	in.		pts.	2nd 3rd 5th 9th 21st 22nd 25th October— 5th 6th 18th 19th 23rd 26th 28th		0 0 0 0 0 0 0 0 1 1 1 0	35 6 33 15 11 23 - 4 4 4 67 2 71	7 days		
2nd 3rd 4th 23rd 29th 30th 31st Cebruary— 3rd 5th 6th 22nd 23rd 27th			0 3 0 23 0 6 0 24 0 5 0 24 0 10 0 70 0 28 1 40 0 8 0 22 1 0	7	v			95		2nd 3rd 5th 9th 21st 22nd 25th October— 5th 6th 18th 19th 23rd 26th 28th		0 0 0 0 0 0 0 0 1 1 1 0	35 6 33 15 11 23 - 4 4 4 67 2 71			
2nd 3rd 4th 23rd 29th 30th 31st Cebruary— 3rd 5th 6th 22nd 23rd 27th 28th			0 3 0 23 0 6 0 24 0 5 0 24 0 10 0 70 0 28 1 40 0 8 0 22 1 0 48	7	days					2nd 3rd 5th 9th 21st 22nd 25th October— 5th 6th 18th 19th 23rd 26th 28th		0 0 0 0 0 0 0 0 1 1 1 0 0 0 3	35 6 33 15 11 23 4 4 4 4 67 2 71			
2nd 3rd 4th 23rd 29th 30th 31st Cebruary— 3rd 5th 6th 22nd 27th 28th			0 3 3 0 23 0 6 0 24 0 10 0 28 1 40 0 8 0 22 1 1 0 0 48	7	v			95		2nd 3rd 5th 9th 21st 22nd 25th October— 5th 6th 18th 19th 23rd 26th 28th		0 0 0 0 0 0 0 0 1 1 1 0 0 3	35 6 33 15 11 23 4 4 4 4 4 67 2 71 77			
2nd 3rd 4th 23rd 29th 30th 31st Cebruary— 3rd 5th 6th 22nd 27th 28th			0 3 0 23 0 0 0 0 24 0 10 0 0 28 1 40 0 0 8 0 22 1 0 0 48 0 0 35 0 0 0 48 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7	v			95		2nd 3rd 5th 9th 21st 22nd 25th October— 5th 6th 18th 19th 23rd 26th 28th November— 1st 2nd		 0 0 0 0 0 0 0 0 1 1 0 0 3	35 6 33 15 11 12 23 4 4 4 4 67 2 71 77 46 47			
2nd 3rd 4th 23rd 29th 30th 31st Cebruary— 3rd 5th 6th 22nd 27th 28th			0 3 3 0 23 0 6 0 24 0 10 0 28 1 40 0 8 0 22 1 1 0 0 48	7	v		in.	95		2nd 3rd 5th 9th 21st 22nd 25th  October— 5th 6th 18th 19th 23rd 26th 28th  November— 1st 2nd 3rd		0 0 0 0 0 0 0 0 1 1 0 0 3	35 6 33 15 11 12 23 4 4 4 67 2 71 77 46 47 34			
2nd 3rd 4th 23rd 29th 30th 31st Cebruary— 3rd 5th 6th 22nd 23rd 27th 28th (arch— 1st 3rd			0 3 0 23 0 6 0 24 0 10 0 10 0 28 1 40 0 8 0 22 1 0 0 48 0 28 0 35 0 38	7	v		in.	95		2nd 3rd 5th 9th 21st 22nd 25th  October— 5th 6th 18th 19th 23rd 26th 28th  November— 1st 2nd 3rd 5th		0 0 0 0 0 0 0 0 1 1 0 0 0 3	35 6 33 15 11 23 4 4 4 67 2 77 77 46 47 34 6			
2nd 3rd 4th 23rd 29th 30th 31st  Cebruary— 3rd 5th 6th 22nd 23rd 27th 28th  [arch— 1st 3rd 4th			0 3 0 23 0 0 0 0 0 24 0 10 0 0 28 1 40 0 8 0 22 1 0 0 48 0 35 0 38 0 10	7	v		in.	95		2nd 3rd 5th 9th 21st 22nd 25th October— 5th 6th 18th 19th 23rd 26th 28th November— 1st 2nd 3rd 3rd 5th		0 0 0 0 0 0 0 0 1 1 0 0 0 3	35 6 33 15 11 12 23 4 4 4 4 67 2 71 77 46 47 34			
2nd 3rd 4th 23rd 29th 30th 31st  Sebruary— 3rd 5th 6th 22nd 23rd 27th 28th  (arch— 1st 3rd 4th 5th			0 3 3 3 3 8 0 10 0 6 6 6	7	v		in.	95		2nd 3rd 5th 9th 21st 22nd 25th  October— 5th 6th 18th 19th 23rd 26th 28th  November— 1st 2nd 3rd 5th		0 0 0 0 0 0 0 0 1 1 0 0 0 3	35 6 33 15 11 23 4 4 4 67 2 77 77 46 47 34 6			
2nd 3rd 4th 23rd 29th 30th 31st  Cebruary— 3rd 5th 6th 22nd 23rd 27th 28th  Iarch— 1st 3rd 4th 5th 14th			0 33 0 23 0 6 6 0 24 0 10 0 24 0 10 0 25 0 24 0 10 0 25 0 24 0 10 0 0 22 1 0 0 0 48 0 22 1 0 0 0 6 0 10 0 0 6 0 10 0 0 6 0 10	7	v		in.	95		2nd 3rd 5th 9th 21st 22nd 25th  October— 5th 6th 18th 19th 23rd 26th 28th  November— 1st 2nd 3rd 5th 13th 13th		0 0 0 0 0 0 0 0 1 1 0 0 0 3	35 6 33 15 11 23 4 4 4 67 2 71 77 46 47 34 63 5 5		7 in.	29 p
2nd 3rd 4th 23rd 29th 30th 31st  Cebruary— 3rd 5th 6th 22nd 27th 28th  Larch— 1st 3rd 4th 5th 14th 21st			0 33 0 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7	v		in.	95		2nd 3rd 5th 9th 21st 22nd 25th  October— 5th 6th 18th 19th 23rd 26th 28th  November— 1st 2nd 3rd 5th 13th 14th 24th		0 0 0 0 0 0 0 0 1 1 1 0 0 3	35 6 33 15 11 23 4 4 4 67 27 77 46 47 34 63 5 32		7 in.	
3rd 4th 23rd 29th 30th 31st  Cebruary— 3rd 5th 6th 22nd 23rd 27th 28th  farch— 1st 3rd 4th 5th 14th			0 33 0 23 0 6 6 0 24 0 10 0 24 0 10 0 25 0 24 0 10 0 25 0 24 0 10 0 0 22 1 0 0 0 48 0 22 1 0 0 0 6 0 10 0 0 6 0 10 0 0 6 0 10	7	v		in.	95	pts.	2nd 3rd 5th 9th 21st 22nd 25th  October— 5th 6th 18th 19th 23rd 26th 28th  November— 1st 2nd 3rd 5th 13th 14th 24th 28th		0 0 0 0 0 0 0 0 1 1 1 0 0 3 0 0 0 0 0 0	35 6 33 15 11 23 4 4 4 4 6 7 7 7 7 4 4 4 7 7 7 7 7 7 7 7		7 in.	29 p
2nd 3rd 4th 23rd 29th 30th 31st  Cebruary— 3rd 5th 6th 22nd 27th 28th  Larch— 1st 3rd 4th 5th 14th 21st			0 33 0 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7	v		in.	95	pts.	2nd 3rd 5th 9th 21st 22nd 25th  October— 5th 6th 18th 19th 23rd 26th 28th  November— 1st 2nd 3rd 5th 13th 14th 24th		0 0 0 0 0 0 0 1 1 0 0 3 0 0 0 0 0 0 0 0	35 6 33 15 11 23 4 4 4 67 27 77 46 47 34 63 5 32		7 in.	29 pt

ROSEB	ANK	RAIN	FALL	RECORD	S-cont	inued	Date			Rainfal	11	Total.	
				-continu		vient ti.	August-			In, Pts		Total.	
	1.77(1	11.			£ (1.		Mugust— 5th			0 24	•		
Dodo			1916				6th			0.54			
Date			Rainfa		Total.		27th			0 50			
December-			In. Pts	S.			28th			0 44			
							29th			0 10			
3rd							~*· CH			0 10	5 days	1 in	82 pts.
5th							September-	_			o au, io		On Iron
6th							9th			0 5			
7th							16th			0 34			
14th			0.70				18th			0 36			
24th			. 0 3				19th			0 20			
25th			. 0 7				24th			0 47			
26th			. 0 8				25th			0 86			
27th											6 days	2 in.	28 pts.
28th							October-						•
29th							1st			0 19			
31st							7th			1 15			
				12 days	5 in.	6 pts.	8th			0 8			
						7 1/63.	24th			0 7			
Tota	l for y	ear 1	916	88 days	37 in.	46 pts.					4 days	1 in.	49 pts.
					O, 111.	10 //18.	November-						
							3rd			0 6			
			1917				+tlı			3 0			
January-							5th			0 4			
5th			0 3				8th			2 18			
14th							9th			1 15			
15th							10th			0.42			
16th							16th			0 77			
17th							18th			0 55			
19th	• •						22nd			0 28			
							23rd			1 33			
20th											10 days	9 in.	78 pts.
21st							December-						-
24th							1st			0 6			
25th			0 98				2nd			0 46			
				10 days	4 in.	11 pts.	9th			0 12			
February-							12th			1 17			
1st			0 81				20th			0 16			
2nd	• •						21st			0 28			
							24th			0 75			
3rd											7 days	3 in.	0 pts.
4th													1
5th							Total	for year	ar 19	17	68 days	34 in.	72 pts.
10th													
11th			0 75	~ 3	~ .	10 .				1918.			
				7 days	5 in.	49 pts.	January-						
March-							3rd			0 43			
2nd			0.33				4th			1 3			
3rd							5th			0 7			
5th			0 73				9th			0 9			
6th			0 21				10th			0 42			
7th			0 70				11th			1 52			
8th			0 34				12th			3 70			
9th			0 40				16th			3 85			
12th		• •					21st			1 28			
17th			0 18				22nd			7 11			
	• •		0 45				23rd			1 77			
22nd							24th			0 12			
23rd			0 14	11 days	2 :	57 nto	29th			0 90			
				11 days	5 111.	57 pts.		• •		0.00			
April—							30th			0 35			
7th			0 59				31st			0 43	15 dores	99 :	7
9th			1 40				February-				15 days	2.0 111.	7 pts.
22nd			0 20				1st			0 31			
30th			0 9				2nd			0 88			
				4 days	2 in.	28 pts.	6th			0 10			
37				, .		1.00							
May—							7th			0 5			
2nd			0 12				Sth			0 5			
3rd			0 43				11th			0 88			
				2 days	0 in.	55 pts.	12th			0 86			
Tuno							13th			0 14			
June-			4.0	1 2	0 .	17	20th			0 8			
8th			0 17	1 day	0 in.	17 pts.	24th			0 90			
							25th			0 87			
July-						1.0				0.31			
July— 12th			0 18	1 day	0 in	18 pts.	28th			0 31	12 days	5 in.	43 pts.

ROSEBA							-cont	inue	ed.	Date.			Rainfa In, Pts			Total.	
	DAIL	Y KA	INFALI		ontinu	ied.				March-			In. t li	7.			
T\. 4			1918							1st			0 59				
Date.	•		Rainfa			Tot	al.			2nd			0 80				
March-			In. Pt	s.						3rd			0 55				
1st			0 13							6th			0 3				
2nd	• •		0 32							27th			0 50				
3rd			0 57							28th			0 50				
4th			0 23							29th			0 14				
22nd			0 50							31st			0 8				
23rd			0 20							0.1.70				8	days	3 in.	19 pts
24th			0 18							April—							
28th			0 70							12th			0 8				
2001	• •		0 70	S	days		in	83	pts.	24th	• •		1 32				
April—					aw, o			00	, pes.	25th			0 8				
8th			0 31							26th			0 9				
23rd			0 22							2001	• •			4	days	1 in	57 pts.
24th			0 44			٠				15					ciu j s		o. I.
25th			1 64							May-			0 0				
26th			0.86							3rd			0 3				
27th			0 9							5th			0 47				
35				6	days	3	in.	56	pts.	6th			0 35				
May-			0.00							7th			0 8				
8th	• •		0 30							8th			0 5				
11th			0 3							9th		• •	0 13				
12th 17th			0 16							11th			0 9				
17111		٠.	0 27	1	dovo	0		7.6	20.40	21st			0 26				
June-				4	days	U	111.	10	pts.	22nd			0 68	0	1.	0 1	14 .
			Nil.											9	days	2 in.	14 pts.
July—										June-							
25th			0 4		1 day	0	in.	4	pts.				Nil.				
August-										July-							
5th			0 42										Nil.				
6th			0 21							Angust							
7th			0 6							August— 26th			0.01				
24th			0 4							27th			0 61				
31st			0 4							27 til	• •		0 4	9	days	O in	65 pts.
				5	days	0	in.	77	pts.	0 1				_	uays	О 1Ц.	oo pis.
September—										September—			2711				
5th			0 48	1	day	0	in.	48	pts.				Nil.				
October—										October—							
11th			0 13	1	3021	0	ž	10		9th			0 9				
			0 15	Т	day	U	111.	15	pts.	16th			0 75				
November—										17th			0 30				
1st			0 41							22nd			0 39				
16th			0 5							28th			0 50				
19th			0 9											5	days	2 in.	3 pts.
$20  ext{th}$			0 43							November-							
21st			0 19	_						23rd			0 30	1	dov	0 in	20
Dagamban				5	days	1	in.	17	pts.				0 00	1	day	0 in.	30 pts.
December— 18th			0 60							December—							
19th			0 27							4th			0 5				
20th			0 18							16th			0 3				
26th	• •		0 17							30th			0 5				
27th			0 65											3	days	0 in.	13 pts.
2 · th				5	days	1	in	87	pts.	m	e		10	-			
										Total	for ye	ear 19	19	42	days	13 in.	74 pts.
Total	for year	r 19.	18	63	days	40	in.	11	pts.								
				_				_					1920.			•	
			1919.							January-							
January—										2nd			4 57				
3rd			0 3							3rd			0 4				
15th			0 42							4th			1 7				
16th			0 37							5th	1.		0 24				
18th			0 24							7th			0 25				
30th			0 50							8th			0 52				
				5	days	1	in.	56	pts.	9th			0 68				
February—					-				1,000	11th			0 83				
13th			0 14							20th			0 33				
14th			0 25							21st							
18th										22nd			0 61				
		٠.	0 11							22110			0 8	7.3	3.		25
		٠.	0 2											11	days	9 in.	22 pts.
20th																	
21st			1 65	E	days	0		1 -	pts.	February— 7th							

Date.  March—     2nd    3rd    4th    5th    9th    30th    31st  April—     10th    16th    19th    21st    22nd    23rd    29th  May—     8th    9th    16th    17th    22rd    25th    26th    28th		R	1920. Rainfall. In. Pts.  0 64 0 36 0 20 0 6 0 28 0 4 0 5		Tota	al.			December— 3rd 7th 8th 9th			0 52 1 17 1 31 0 14		days	3 in	. 1	4 nte
March—			Rainfall In. Pts.  0 64 0 36 0 20 0 6 0 28 0 4 0 5		Tota	al.			3rd 7th 8th			1 17 1 31	4	days	3 in	. 1	4 pte
March—			In. Pts.  0 64 0 36 0 20 0 6 0 28 0 4 0 5		Tota	al.			8th			1 31	4	days	3 in	. 1	4 nte
2nd 3rd 4th 5th 9th 30th 31st    April— 10th 16th 19th 21st 22nd 23rd 29th    May— 8th 9th 16th 17th 22nd 23rd 25th 26th 28th    June—			0 64 0 36 0 20 0 6 0 28 0 4 0 5										4	days	3 in	. 1	4 nte
2nd 3rd 4th 5th 9th 30th 31st    April— 10th 16th 19th 21st 22nd 23rd 29th    May— 8th 9th 16th 17th 22nd 23rd 25th 26th 28th    June—			0 36 0 20 0 6 0 28 0 4 0 5	7 days					9th	• •		0 14	4	days	3 in	. 1	4 nte
3rd 4th 5th 9th 30th 31st    April— 10th 16th 19th 21st 22nd 23rd 29th    May— Sth 9th 16th 17th 22nd 23rd 25th 26th 28th    June—			0 36 0 20 0 6 0 28 0 4 0 5	7 days									4	days	3 in	. 1	
4th 5th 9th 30th 31st  April— 10th 16th 19th 21st 22nd 23rd 29th  May— 8th 9th 16th 17th 22nd 23rd 25th 26th 28th			0 20 0 6 0 28 0 4 0 5	7 days													- Pres-
5th 9th 9th 9th 30th 31st  April— 10th 16th 19th 21st 22nd 23rd 29th  May— 8th 9th 16th 17th 22nd 23rd 25th 26th 28th			0 6 0 28 0 4 0 5	7 days										-	01 '	0	1
9th 30th 31st  April— 10th 16th 19th 21st 22nd 23rd 29th  May— Sth 9th 16th 17th 22nd 23rd 25th 26th 28th  June—			0 28 0 4 0 5	7 days					Total	for yea	r 19:	20	67	days	31 in	. 3	I pts.
30th 31st  April— 10th 16th 19th 21st 22nd 23rd 29th  May— 8th 9th 16th 17th 22nd 23rd 25th 26th 28th			0 4 0 5	7 days													
31st  April— 10th 10th 21st 22nd 23rd 29th  May—  Sth 9th 16th 17th 22nd 23rd 25th 26th 28th June—			0 5	7 days								1921.					
April—  10th 16th 19th 21st 22nd 23rd 29th  May—  Sth 9th 16th 17th 22nd 23rd 25th 26th 28th  June—				7 days					January-	,							
10th 16th 19th 21st 22nd 23rd 29th    May—  Sth 9th 16th 17th 22nd 23rd 25th 26th 28th    June—			0 3	7 days					8th			0 15					
10th 16th 19th 21st 22nd 23rd 29th    May—  Sth 9th 16th 17th 22nd 23rd 25th 26th 28th    June—			0 3		. 1	in,	63	pts.	14th			0 90					
16th 19th 19th 21st 22nd 23rd 29th    May—  Sth 9th 16th 17th 22nd 23rd 25th 26th 28th    June—			0 3						15th			1 13					
19th 21st 22nd 22nd 23rd 29th  May—  Sth 9th 16th 17th 22nd 23rd 25th 26th 28th									16th			0 69					
21st 22nd 22nd 23rd 29th    May—  Sth 9th 16th 17th 22nd 23rd 25th 26th 28th    June—	 		0 5						17th			2 9					
22nd 23rd 29th May— Sth 9th 16th 17th 22nd 23rd 25th 26th 28th June—			0 13						18th			0 25					
23rd 29th May— Sth 9th 16th 17th 22nd 25th 26th 28th			0 6						19th			0 18					
29th  May—  Sth 9th 16th 17th 22nd 23rd 25th 26th 28th June—			0 31						24th			0 5					
May—  Sth 9th 16th 17th 22nd 23rd 25th 26th 28th  June—			0 3						28th			0 9					
8th 9th 16th 17th 22nd 23rd 25th 26th 28th  June—			0 7						29th			0 8					
8th 9th 16th 17th 22nd 23rd 25th 26th 28th  June—				7 days	0	in.	68	pts.	30th			0 17					
8th 9th 16th 17th 22nd 23rd 25th 26th 28th  June—									31st			0 12		,			0
9th 16th 17th 22nd 23rd 25th 26th 28th  June—			0.75										12	days	5 in	. 9	0 pts
16th			0 30						February-			1.14					
17th 22nd 23rd 25th 26th 28th			0 69						7th			1 14					
22nd			0 65						8th			0 16					
23rd 25th 26th 28th			0 5						15th			0 3					
25th 26th 28th			0 45						20th			0 20					
26th 28th			0 16						21st			0 7					
28th June—			0 12						24th			0 8					
June			0 4						28th			0 8	7	days	1 iv	7	6 pts
				9 days	3	in.	21	pts.	March-				- 1	uays	1 11		o pro
								•	5th			0 7					
2110			0 3						7th			0 67					
2 3	• •	• •	0 14						8th			0 18					
									9th			0 25					
			1 76						10th			0 40					
			0 11						11th			0 11					
28th	• •		0 6	5 days	, 9	in	10	pts.	12th			0 6					
				o daya	_	111.	10	pro.	13th			0 6					
July-			0.10						14th			0 8					
			0 10						30th			0 38					
			0 12						31st			0 18					
			0 64										11	days	2 ir	ı. 4	4 pts
			0 40						April								
16th	• •		0 2	5 days	. 1	in	98	pts.	1st			0 10					
				o days	, 1	111.	20	Press.	2nd			0 8					
August-									3rd			0 3					
1st			0 62						4th			0 11					
			0 25						6th			0 90					
30th .			0 71	2 3			50	nta	12th			0 14					
				3 days	, 1	ın.	98	pts.	15th			0 3					
September-									16th			0 5					
			0 37						17th			0 7					
			0 8						29th			0 3					
			0 75						30th			0 5	2.2	20	1 .	. ~	
1011			0 14						25				11	days	1 ii	ı. ə	a pts
2001				4 days	1	in.	34	pts.	May-			0.10					
October-									2nd			0 16					
			0 19						6th	• •		$\begin{array}{ccc} 0 & 7 \\ 0 & 95 \end{array}$					
			1 57						16th			0 95					
			0 36						21st	• •							
			1 26						25th	• •		0 4	5	days	1 5	7	0 pts
			0 74						June-				J	anjs	1 11	. '	· tris
			0 23						5th			0 25					
24111 .				6 days	4	in.	35	pts.	9th			1 20					
37. 1								-	10th			2 14					
November—			0.00						11th			1 80					
			0 22						13th			0 9					
			0 61						24th								
												0 7					
			1 31								• •	0 7					
28th .									26th 30th			0 7 0 20 0 17					

ROSEE								cont	inue	d.	Date	٠.		Rainfa In, Pt			Total.			
	DAI	LY R.	AINF	ALL	- 0	ontini	icd.				February-	continu	7	In. Et	8.					
			1	921							10th			0 8						
Date	ρ.		Rai	nfal	13		Tot:	.1												
							100	11.			20th			0.00						
July-			111.	Pts	· -						27th									
lst			. 2	0							28th			0 12	1.0	days	7 i	n	29 p	ats.
. 4th				22							March-				10	uays	, ,	11.	20 1	, ( 5.
9th											1st			0 45	1	day	0 i	11.	45 r	its.
11th				15							191			0 10		· · · · · ·	0 1			
12th											April—									
20th											17th			0 15	1	day	0 i	11.	15 p	ts.
21st																				
		٠.									May—									
22nd			. 0	26	0	3		,	0.0	4.	22nd			0 21						
Angust-					0	days	2	111.	55	pts.	29th			-0.33						
17th			0	68							-				2	days	0 i:	11.	54 p	its.
28th				80							June-									
30th				6							11th			0 50						
31st											12th			0 86						
9181				47	-1	days	0	in.	1	***	19th			0 9						
Santanhan					-1	uays	ت	111.	1	pt.	21st			0 7						
September-			()	0.0							29th			1 18						
5th				20							30th			0 2						
7th	٠.			18											6	days	2 i1	1.	72 p	ts.
8th				4							July-									
9th											Sth			0 76						
15th				9	~			,			9th			1 24						
October—					9	days	0	111.	56	pts.	13th			0 4						
2n/l			0	36							16th			0 6					20	
10th				13							August-				4	days	2 in	1.	10 pt	ts.
1.1th				10										0.05						
12th				41							23rd			0 67						
15th											29th			0 28	0	Jane	0 :		0=	
23rd		٠.		52 9							September-	_			-	days	0 11	١.	95 pt	ts.
2010	• •				6	dove	1	in	61	2060	13th			0 4						
November-					U	days	.1	111.	01	pts.	21st			0 11						
			0	0.0							2131			0 11	0	done	0 :		17	
14th			0								October-				-	days	UII		15 pt	18.
21st			0								22nd			0 15						
28th			0								25th			0 53						
29th			1												2	days	0 in		68 pt	re .
30th			0		-	J	0		0.0		November—				_	cita y ii	0 111		05 pt	170
December-					9	days	2	111.	32	pts.	17th			0 15						
11th			0	26							20th			0 62						
16th			0								21st			0 4						
25th				8							26th			2 83						
26th			1								27th			0 9						
27th			3								7.				5	days	3 in		73 pt	is.
28th			1 :								December								•	
29th		• •	1 1								8th			0 12						
30th											9th			0 12						
31st			1 5								10th			0 5						
1510	• •		0 7		0	Jone	1.1		0.0		14th			0 11						
						days	11	111.	02	pts.	15th			1 38						
Total	for ye	9r 10	91		0.1	dossa	40		9.1		16th		٠.	0 35						
Total	101 50	137	-' .		O L	days	40	111.	31	pts.	18th ·			0 10						
			10	00							19th			1 50						
January-			193	22.							20th			0 22						
1st			0.8	21							21st			0 9						
6th											22nd			1 31						
7th		٠.	0								26th		٠.	0 13						
9th			0 7												12	days	5 in		48 pt	rs.
15th			0 5																1/1	
		٠.	0 3								Total	for year	19:	22	57	days	31 in		2 pt	
16th			0 2													,,	111	•	- Pt	٥.
17th			0											1923.						
22nd		٠.	0 3								January-									
30th		٠.	0 2								2nd			0 3						
31st		٠.	3 5		1.0	,					3rd			0 81						
February—				_	10 (	days	6 i	ri.	78	pts.	7th			0 65						
1st			0.3	4							8th			0 13						
2nd			0 1 2 7								9th		• •	0 38						
2na 3rd		• •									10th			0 24						
ara 4th		٠.	0 2								11th									
		٠.	1 6								12th		٠.	0 95						
5th			0 7								26th		٠.	0 40						
9th		٠.	0 4	3									٠.	1 26	0	1				
															9	days	4 in		85 pt	s.

ROSEBAN							ued.		Date.			fall.	. Т	otal.	
	DAILY	RAI	NFALL-	-cont	linued	l.			February—		Ln.	Pts.			
			1923.						1st		0	30			
Date.			Rainfall.		T	otal,						25			
		3	n. Pts.						5th	 					
ebruary—									6th	 		8			
3rd			0 49					İ	8th	 		44			
11th			0 11						11th	 		40			
				2 d	lays	0 in.	60	pts.	12th	 		38			
arch-								-	14th	 		10			
2nd			0 60						15th	 	1	23			
3rd			0 43						16th	 	0	73			
				2 d	lays	1 in.	3	pts.	18th	 	0	7			
pril—								1	19th	 		18			
10th			0 5						20th	 		38			
11th			2 49						22nd			21			
16th			0 4						221101	 			13 days	5 in.	75 n
17th			0 3								-		15 days	0 1111.	10 [
			0 9						March						
24th											0	19			
25th			0 21						6th						
27th			1 90	~ .	1		0.7		7th	 		71			
				7 0	lays	4 in.	81	pts.	Sth	 		61			
Iay—			3713						9th	 		7			
			Nil.						14th	 		16			
unc-									23rd	 	0	10			
4th			1 55						25th	 	0	47			
			1 84						28th	 		39			
5th									Lotte				8 days	4 in.	70 T
25th			0 40	0 .	10.00	9 :	70	nto							
				3 (	lays	3 in.	7.9	pts.	April—						
July-									3rd	 	0	50			
1st			0 28						7th	 		12			
27th			0 36									23			
28th			0 28						8th	 					
				3 (	days	0 in.	92	pts.	9th	 		34			
August—									10th	 	1	60		0 1	70 -
20th			0 30	1 6	day	0 in.	30	pts.					5 days	2 in.	19 t
20(11			0 00	- '				1	35						
September-									May—		1	Vil.			
			0 53								1	111.			
4th			0 37												
5th			0 31	2 6	days	0 in.	90	nts.	June-						
2 4 1				- (	aujo	0		Pesi	11th	 	1	30			
October—												12			
18th			0 5						12th	 		3			
21st			0 4						13th	 	U		9 1000	1 in.	45 1
31st			0 19		_		20				_		3 days	1 111.	40
				3 (	days	0 in.	28	pts.	July-						
November—											0	2			
1st			0 18						6th	 	0				
2nd			0 5						8th	 		35			
4th			0 6						9th	 	3	61			
9th			0 60						10th	 	0	30			
			0 27						11th	 	0	24			
13th			0 3						12th	 	0				
15th			0 3	6	days	1 in.	10	nts				79			
D				0 (	unys	I III.	10	Pto	22nd						
December—			1 10						23rd	 					
1st			1 10						24th	 	0	10			
2nd			0 17						25th	 	0	27			- 1
4th			0 30								-		10 days	5 in.	1+
5th			0 4						1						
8th			0 11						August-						
12th			0 8						13th	 	0	18			
			0 3						29th		0	33			
15th									30th	 		44			
21st			0 6									6			
22nd			1 74						31st	 			4 days	1 in.	1
23rd			0 5										, uajs	2 1	
26th			0 53						September-						
27th			0 23								(	22			
29th			0 1						25th	 	-				
20111			0 1	13	days	4 in.	45	pts.	29th	 		37	0.3		FO
													2 days	1 in.	59
Total	for ye	ar 10	923	51	days	23 in.	12	pts.							
Total	TOT Y	d1 16	20	01				-	October-						
									6th		(	68			
			1924.									23			
January—									20th			87			
22nd			0 27						21st						
22nd 23rd	• •								22nd			40			
7370			$\begin{array}{ccc} 0 & 4 \\ 3 & 0 \end{array}$						31st			22		0 1	40
30th													5 days		

NOSEBA			FALL INFALL				inuea	1.	Date.				nfal Pts		,	Fotal	1.		
	1/AII	113	1924.		, come				July			0	6	1	day	0	in.	6	pts
Date.			Rainfal	1.	"]	lotal.			4th	• •	• •	U	0	1	uay	U	111.		P
			In. Pts.						August-			0	E0.						
ovember— 1st			0 63						9th		• •		50 10						
2nd			2 60						10th		• •		37						
4th			0 30						30th				33						
6th			0 60						31st			_		4	days	1	in.	30	pts
8th			0 16						G t					-					•
9th			2 63						September—			0	4						
12th			0 50						4th		• •								
13th			1 25						16th				58						
20th			0 18						17th				32						
24th			0 70						24th			0.	14	4	days	1	in.	8	pts
				10	days	9 iu.	5.5	pts.	October—					-	art y o	_			1
ecember— 3rd			0 40									N	il.						
7th			0 12																
17th			1 0						November—										
18th			0 20						2nd				27						
19th			0 37						4th				23						
20th			0 40						8th				91						
30th			1 60						11th				15						
-00(H		• •		7	days	4 in.	9	pts.	13th				7						
				_	aujs	. 111.	.,	press.	14th			0	22		,			0-	
Total :	for ye	ear 19	)24	70	days	42 in.	38	pts.	Daniel Law			-	_	6	days	2	in.	85	pt
								-	December-			0	7						
			1925.						1st			0	7						
muary—			0.45						13th				38						
5th			0 47						15th				84						
7th			0 53						16th				19						
8th			0 27						17th				7						
21st			1 40						24th				73						
22nd			0 15						25th				28						
23rd			0 12						29th			1	24						
24th			1 34						30th			0	46						
31st			1 20	O	days	5 10	-10	nt	31st			1	18	10	domo	c		1.1	- 1
ebruary—				٥	uays	5 in.	40	pts.					_		days		in.	44	pt
1st			0 7						Total	for yea	r 19	25		63	days	32	in.	12	pts
2nd			0 4																
7th			0 6																
23rd			2 40									19	26.						
26th			1 12						January-										
27th			0 33						1st			0	48						
28th			0 60	~	1		40		3rd			0	15						
arch—				7	days	4 in.	62	pts.	4th			0	80						
5th			0 29						5th			0	72						
12th			1 3						6th				21						
17th	• •	• •	0 28						Sth				41						
18th			0 28						20th				10						
			0 9											7	days	2	in.	87	ni
20th									February—							-			1'
21st	٠.		0 4						10th			0	5						
24th			0 45						11th				79						
29th			0 23						11(11			0	19	9	dave	0	in	0.4	
30th			0 25						March-					2	days	U	in.	04	pi
31st		,	0 38	7.0	7.							- 43	2.0						
ravil				10	days	3 in.	9	pts.	18th				18						
pril— 1st			0.91						21st				24						
1st 14th			0 21						25th				46						
14(1)			0 37	2	days	0 in.	58	nts	4			-		3	days	0	in.	88	p
ay—							.,.,	Lein	April—				1.						
1st			0 14						3rd 54b		٠.		11						
4th			0 5						5th				11						
18th			0 15						6th				9						
			0.73						8th			0	31						
26th			0 8	~	7	1 .							_	4	days	0	in.	62	p
				5	days	l in.	15	pts.	May-										
26th 28th			0 3						10th			0	17						
26th 28th			0 11						14th		٠.								
26th 28th une— 13th			0 11									U	33						
26th 28th une— 13th 16th												-							
26th 28th une— 13th 16th 19th	• •		3 0						15th				6						
26th 28th 13th 16th 19th 20th	• •		$\begin{array}{cc} 3 & 0 \\ 2 & 20 \end{array}$						16th			0	21						
26th 28th une— 13th 16th 19th	• •		3 0									6							

	DAIL!	AIN] v Ra	EALL.	RECORDS	S—conti	nued.	Date.			Rainfal		rotal.	
			1926.		eu.		March—con	tinucd.		In. Pts			
Date.		]	Rainfal	1.	Total.		13th			2 80			
une—			In. Pts				14th			0 75			
7th			0 72				23rd			0 47			
20th			0 21				24th			1 9			
22nd			0 8				25th			1 50			
23rd			0 52				26th			0 40			
24th			0 19								13 days	8 in.	11 p
25th			0 8				April—						
				6 days	1 in.	80 pts.	1st			0 51			
aly—				o any p	1 111.	oo pis.	2nd			3 45			
Sth			0 22	1 day	0 in.	22 pts.	6th			0 14			
				2		peo.	18th			0 45			
ugust—							27th			0 9			
			Nil.					• •	• •		5 days	4 in.	64 p
ptember— 7th			0.24				May-				o dajo		01 1
	• •		0 34				12th			0 15	1 day	0 in.	15 n
9th			0 7								,		1
17th			0 7				June-						
20th			0 3				4th			3 30			
26th			0 13				5th			0 90			
27th			1 10				17th			0 35			
				6 days	1 in.	74 pts.	18th			0 9			
tober—			() 00								4 days	4 in.	64 p
15th			0 33	1 day	0 in.	33 pts.	July-						- 1
ovember-							7th			0 24			
16th			0 44				8th			0 5			
25th			0 50				22nd			0 18			
. 1				2 days	0 in.	94 pts.	23rd			0 32			
cember—			1 -								4 days	0 in.	79 n
3rd			1 7				August-				, 15		
7th		• •	0 25				2nd			0 4			
Sth			0 13				5th			0 18			
13th			0 15				6th			0 3			
14th			0 31				27th			0 35			
15th			0 94				21(11	• •		0 30	4 days	0 in.	60 r
16th			1 7				September-	_			1 days	0 111.	00 1
17th			0 30				11th			0 44			
20th			1 54				13th			0 7			
21st			2 30				14th			0 3			
28th			1 4				28th			0 45			
30th			0 55				29th			0 6			
								• •					
31st			0 72				30th			0 7	6 dora		10
					10 :								
		• •		13 days	10 in.	37 pts.					6 days	1 in.	12 p
Total	for vea						October—			0.49	o days	I in.	12 p
Total	for yea			13 days 51 days	10 in. 28 in.	37 pts.  28 pts.	October— 2nd			0 42		I in.	12 Į
Total	for yea		26				October— 2nd 14th			1 32	o days	I in.	12 J
	for yea						October— 2nd 14th 15th			$\begin{array}{cc} 1 & 32 \\ 0 & 35 \end{array}$		I in.	12 Į
nuary—		nr 19	26 1927.				October— 2nd 14th 15th 23rd		• •	$\begin{array}{ccc} 1 & 32 \\ 0 & 35 \\ 0 & 14 \end{array}$		I in.	12 [
nuary— 2nd		ır 19	26 1927. 0 28				October— 2nd 14th 15th 23rd 24th			$\begin{array}{ccc} 1 & 32 \\ 0 & 35 \\ 0 & 14 \\ 0 & 75 \end{array}$		I in.	12 [
nuary— 2nd 5th		nr 19	26 1927. 0 28 0 13				October— 2nd 14th 15th 23rd		• •	$\begin{array}{ccc} 1 & 32 \\ 0 & 35 \\ 0 & 14 \end{array}$			
nuary— 2nd 5th 18th		 	26 1927. 0 28 0 13 4 12				October— 2nd 14th 15th 23rd 24th 25th			$\begin{array}{ccc} 1 & 32 \\ 0 & 35 \\ 0 & 14 \\ 0 & 75 \end{array}$			
nuary— 2nd 5th 18th 19th		nr 19	26 1927. 0 28 0 13 4 12 0 91				October— 2nd 14th 15th 23rd 24th 25th November—			1 32 0 35 0 14 0 75 0 59			
nuary— 2nd 5th 18th 19th 20th		 	1927. 0 28 0 13 4 12 0 91 1 3				October— 2nd 14th 15th 23rd 24th 25th November— 14th			1 32 0 35 0 14 0 75 0 59			
nuary— 2nd 5th 18th 19th 20th 21st		 	1927. 0 28 0 13 4 12 0 91 1 3 0 73				October—     2nd     14th     15th     23rd     24th     25th  November—     14th     18th		••	1 32 0 35 0 14 0 75 0 59 0 22 0 13			
2nd 5th 18th 19th 20th 21st 22nd			26 1927. 0 28 0 13 4 12 0 91 1 3 0 73 0 4				October— 2nd 14th 15th 23rd 24th 25th November— 14th 18th 19th			1 32 0 35 0 14 0 75 0 59			
nuary— 2nd 5th 18th 19th 20th 21st			1927. 0 28 0 13 4 12 0 91 1 3 0 73				October—     2nd     14th     15th     23rd     24th     25th  November—     14th     18th			1 32 0 35 0 14 0 75 0 59 0 22 0 13			
2nd 5th 18th 19th 20th 21st 22nd			26 1927. 0 28 0 13 4 12 0 91 1 3 0 73 0 4				October— 2nd 14th 15th 23rd 24th 25th November— 14th 18th 19th			1 32 0 35 0 14 0 75 0 59 0 22 0 13 0 75			
2nd 5th 18th 19th 20th 21st 22nd 23rd			26 1927. 0 28 0 13 4 12 0 91 1 3 0 73 0 4 0 39				October—     2nd     14th     15th     23rd     24th     25th  November—     14th     18th     19th     20th			1 32 0 35 0 14 0 75 0 59 			
2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 25th			26  1927. 0 28 0 13 4 12 0 91 1 3 0 73 0 4 0 39 0 40 0 25				October—     2nd     14th     15th     23rd     24th     25th  November—     14th     18th     19th     20th     29th			1 32 0 35 0 14 0 75 0 59 0 22 0 13 0 75 1 37 0 94 1 0			
2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th			26  1927. 0 28 0 13 4 12 0 91 1 3 0 73 0 40 0 39 0 40 0 25 0 35				October— 2nd 14th 15th 23rd 24th 25th  November— 14th 18th 19th 20th 28th 29th 30th			1 32 0 35 0 14 0 75 0 59 0 22 0 13 0 75 1 37 0 94	6 days	3 in.	57 <sub>I</sub>
2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th			26  1927. 0 28 0 13 4 12 0 91 1 3 0 73 0 4 0 39 0 40 0 25 0 35 0 7				October—     2nd     14th     15th     23rd     24th     25th  November—     14th     18th     19th     20th     29th			1 32 0 35 0 14 0 75 0 59 0 22 0 13 0 75 1 37 0 94 1 0		3 in.	57 <sub>I</sub>
2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th			26  1927. 0 28 0 13 4 12 0 91 1 3 0 73 0 40 0 39 0 40 0 25 0 35	51 days	28 in.	28 pts.	October— 2nd 14th 15th 23rd 24th 25th  November— 14th 18th 19th 20th 28th 29th 30th			1 32 0 35 0 14 0 75 0 59 	6 days	3 in.	57 <sub>I</sub>
2nd 5th 15th 19th 20th 21st 22nd 22nd 23rd 24th 25th 26th 27th 29th			26  1927. 0 28 0 13 4 12 0 91 1 3 0 73 0 4 0 39 0 40 0 25 0 35 0 7		28 in.		October—     2nd     14th     15th     23rd     24th     25th  November—     14th     18th     19th     20th     28th     29th     30th  December—     5th			1 32 0 35 0 14 0 75 0 59 	6 days	3 in.	57 <sub>I</sub>
2nd 5th 15th 19th 20th 21st 22nd 22nd 23rd 24th 25th 26th 27th 29th			26  1927. 0 28 0 13 4 12 0 91 1 3 0 73 0 4 0 39 0 40 0 25 0 35 0 7	51 days	28 in.	28 pts.	October—     2nd     14th     15th     23rd     24th     25th  November—     14th     18th     19th     20th     28th     29th     30th  December—     5th     8th			1 32 0 35 0 14 0 75 0 59 0 22 0 13 0 75 1 37 0 94 1 0 0 7 0 35 0 18	6 days	3 in.	57 <sub>I</sub>
nuary— 2nd 5th 18th 19th 20th 21st 22nd 24th 25th 25th 26th 27th 29th			26 1927. 0 28 0 13 4 12 0 91 1 3 0 73 0 4 0 39 0 40 0 25 0 35 0 7 0 72 1 82	51 days	28 in.	28 pts.	October—     2nd     14th     15th     23rd     24th     25th  November—     14th     19th     20th     29th     30th  December—     5th     8th     9th			1 32 0 35 0 14 0 75 0 59 0 22 0 13 0 75 1 37 0 94 1 0 0 7 0 35 0 18 0 40	6 days	3 in.	57 <sub>I</sub>
nuary— 2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 26th 27th 26th 27th 20th 29th 57th 25th 57th			26  1927. 0 28 0 13 4 12 0 91 1 3 0 73 0 4 0 39 0 40 0 25 0 35 0 7 0 72  1 82 0 80	51 days	28 in.	28 pts.	October—     2nd     14th     15th     23rd     24th     25th  November—     14th     18th     19th     20th     28th     29th     30th  December—     5th     8th     9th     12th			1 32 0 35 0 14 0 75 0 59 0 22 0 13 0 75 1 37 0 94 1 0 0 7 0 35 0 18 0 40 0 15	6 days	3 in.	57 <sub>I</sub>
nuary— 2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 25th 27th 29th bruary— 2nd 5th 6th			26  1927. 0 28 0 13 4 12 0 91 1 3 0 73 0 4 0 39 0 40 0 25 0 35 0 7 0 72  1 82 0 80 0 44	51 days	28 in.	28 pts.	October—     2nd     14th     15th     23rd     24th     25th  November—     14th     18th     19th     20th     28th     29th     30th  December—     5th     8th     9th     12th     12th     13th			1 32 0 35 0 14 0 75 0 59 0 22 0 13 0 75 1 37 0 94 1 0 0 7 0 35 0 18 0 40 0 15 0 40	6 days	3 in.	57 <sub>I</sub>
nuary— 2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 29th bruary— 2nd 5th 6th 13th			26  1927. 0 28 0 13 4 12 0 91 1 3 0 73 0 40 0 25 0 35 0 7 0 72  1 82 0 84 0 10	51 days	28 in.	28 pts.	October—     2nd     14th     15th     23rd     24th     25th  November—     14th     18th     19th     20th     28th     29th     30th  December—     5th     8th     9th     12th     13th     14th			1 32 0 35 0 14 0 75 0 59 0 22 0 13 0 75 1 37 0 94 1 0 0 7 0 35 0 18 0 40 0 15 0 40 0 62	6 days	3 in.	57 <sub>I</sub>
2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 29th 27th 29th 5th 6th 13th 22nd 5th 6th 13th 22nd			1927. 0 28 0 13 4 12 0 91 1 3 0 73 0 40 0 25 0 35 0 7 0 72 1 82 0 80 0 44 0 0 10 0 20	51 days	28 in.	28 pts.	October—     2nd     14th     15th     23rd     24th     25th  November—     14th     18th     19th     20th     30th  December—     5th     8th     9th     12th     13th     14th     19th			1 32 0 35 0 14 0 75 0 59 0 22 0 13 0 75 1 37 0 94 1 0 0 7 0 35 0 18 0 40 0 15 0 40 0 62 0 22	6 days	3 in.	57 <sub>I</sub>
nuary— 2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 29th bruary— 2nd 5th 6th 13th			1927. 0 28 0 13 0 73 0 73 0 73 0 74 0 39 0 40 0 30 0 40 0 30 0 72 1 82 0 80 0 44 0 10 0 10 0 20 0 56	51 days	28 in.	28 pts. 42 pts.	October—     2nd     14th     15th     23rd     24th     25th  November—     14th     18th     19th     20th     28th     29th     30th  December—     5th     8th     9th     12th     13th     14th     19th     20th			$\begin{array}{c} 1 \ 32 \\ 0 \ 35 \\ 0 \ 14 \\ 0 \ 75 \\ 0 \ 75 \\ 0 \ 75 \\ 0 \ 75 \\ 0 \ 75 \\ 0 \ 13 \\ 0 \ 75 \\ 1 \ 37 \\ 0 \ 94 \\ 1 \ 0 \ 0 \\ 0 \ 7 \\ \hline \\ 0 \ 35 \\ 0 \ 40 \\ 0 \ 15 \\ 0 \ 40 \\ 0 \ 22 \\ 0 \ 18 \\ \end{array}$	6 days	3 in.	57 <sub>I</sub>
2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 26th 27th 5th 6th 6th 13th 22nd 23rd 24th 23rd 24th 25th 26th 27th 5ruary—2nd 5th 6th 22nd 23rd 23rd 23rd			1927. 0 28 0 13 4 12 0 91 1 3 0 73 0 40 0 25 0 35 0 7 0 72 1 82 0 80 0 44 0 0 10 0 20	51 days	28 in.	28 pts.	October—     2nd     14th     15th     23rd     24th     25th  November—     14th     18th     19th     20th     28th     29th     30th  December—     5th     8th     9th     12th     13th     14th     19th     20th     21th     12th     12th			$\begin{array}{c} 1 \ 32 \\ 0 \ 35 \\ 0 \ 14 \\ 0 \ 75 \\ 0 \ 75 \\ 0 \ 75 \\ 0 \ 75 \\ 0 \ 13 \\ 0 \ 75 \\ 1 \ 37 \\ 0 \ 94 \\ 1 \ 0 \ 0 \\ 0 \ 15 \\ 0 \ 40 \\ 0 \ 62 \\ 0 \ 22 \\ 0 \ 28 \\ 0 \ 7 \\ \end{array}$	6 days	3 in.	57 <sub>1</sub>
nuary— 2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 29th bruary— 2nd 5th 6th 13th 22nd 23rd			1927. 0 28 0 13 0 73 0 73 0 73 0 74 0 39 0 40 0 30 0 35 0 7 0 72 1 82 0 80 0 44 0 10 0 10 0 20 0 56	51 days	28 in.	28 pts. 42 pts.	October—     2nd     14th     15th     23rd     24th     25th  November—     14th     18th     19th     20th     30th  December—     5th     8th     9th     12th     13th     14th     19th     20th     23rd			$\begin{array}{c} 1 \ 32 \\ 0 \ 35 \\ \hline \\ 0 \ 14 \\ 0 \ 75 \\ \hline \\ 0 \ 59 \\ \hline \\ 0 \ 22 \\ 0 \ 13 \\ 0 \ 75 \\ \hline \\ 0 \ 35 \\ 0 \ 18 \\ 0 \ 40 \\ 0 \ 15 \\ 0 \ 40 \\ 0 \ 62 \\ 0 \ 22 \\ 0 \ 18 \\ 0 \ 40 \\ 0 \ 35 \\ 0 \ 37 \\ \hline \end{array}$	6 days	3 in.	57 <sub>I</sub>
nuary— 2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 29th bruary— 2nd 5th 6th 13th 22nd 23rd			1927. 0 28 0 13 0 28 0 13 0 91 1 3 0 73 0 44 0 39 0 40 0 25 0 7 0 72 1 82 0 80 0 44 0 10 0 20 0 56	51 days	28 in.	28 pts. 42 pts.	October—     2nd     14th     15th     23rd     24th     25th  November—     14th     18th     19th     20th     28th     29th     30th  December—     5th     8th     9th     12th     13th     14th     19th     20th     21th     12th     12th			$\begin{array}{c} 1 \ 32 \\ 0 \ 35 \\ 0 \ 14 \\ 0 \ 75 \\ 0 \ 75 \\ 0 \ 75 \\ 0 \ 75 \\ 0 \ 13 \\ 0 \ 75 \\ 1 \ 37 \\ 0 \ 94 \\ 1 \ 0 \ 0 \\ 0 \ 15 \\ 0 \ 40 \\ 0 \ 62 \\ 0 \ 22 \\ 0 \ 28 \\ 0 \ 7 \\ \end{array}$	6 days	3 in.	57 <sub>I</sub>
nuary— 2nd 5th 18th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 29th bruary— 2nd 5th 6th 13th 22nd 23rd 3rd 3rd			26  1927. 0 28 8 9 1 1 2 3 4 12 9 9 1 1 3 3 9 9 1 1 82 9 1 1 82 9 1 1 1 82 9 1 1 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	51 days	28 in.	28 pts. 42 pts.	October—     2nd     14th     15th     23rd     24th     25th  November—     14th     18th     19th     20th     30th  December—     5th     8th     9th     12th     13th     14th     19th     20th     23rd			$\begin{array}{c} 1 \ 32 \\ 0 \ 35 \\ \hline \\ 0 \ 14 \\ 0 \ 75 \\ \hline \\ 0 \ 59 \\ \hline \\ 0 \ 22 \\ 0 \ 13 \\ 0 \ 75 \\ \hline \\ 0 \ 35 \\ 0 \ 18 \\ 0 \ 40 \\ 0 \ 15 \\ 0 \ 40 \\ 0 \ 62 \\ 0 \ 22 \\ 0 \ 18 \\ 0 \ 40 \\ 0 \ 35 \\ 0 \ 37 \\ \hline \end{array}$	6 days	3 in.	57 <sub>1</sub>
nuary— 2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 26th 27th 29th 5th 6th 13th 22nd 23rd 4th			1927. 0 28 0 13 4 12 0 91 1 3 3 0 4 4 0 39 0 40 0 50 7 7 2 1 82 0 80 0 44 0 0 20 0 56 6 0 13 3 0 9 0 30 0 40 0 20 0 56 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	51 days	28 in.	28 pts. 42 pts.	October—     2nd     14th     15th     23rd     24th     25th  November—     14th     18th     19th     20th     28th     29th     30th  December—     5th     8th     9th     12th     13th     14th     19th     20th     23rd     24th     25th			$\begin{array}{c} 1 \ 32 \\ 0 \ 35 \\ \hline \\ 0 \ 144 \\ 0 \ 75 \\ 0 \ 59 \\ \hline \\ 0 \ 22 \\ 0 \ 13 \\ 1 \ 37 \\ 0 \ 94 \\ 1 \ 0 \ 0 \\ 7 \\ \hline \\ 0 \ 35 \\ 0 \ 40 \\ 0 \ 62 \\ 0 \ 22 \\ 0 \ 23 \\ 0 \ 7 \\ 0 \ 34 \\ 0 \ 6 \\ 0 \ 6 \\ \end{array}$	6 days	3 in.	57 <sub>I</sub>
nuary— 2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 26th 37th 29th bruary— 2nd 6th 13th 12nd 23rd 4th 13th 42nd 23rd			1927. 0 28 0 13 0 73 0 74 0 39 0 40 0 30 0 40 0 30 0 72 1 82 0 80 0 44 0 10 0 10 0 20 0 56 0 13 0 9 0 7	51 days	28 in.	28 pts. 42 pts.	October—     2nd     14th     15th     23rd     24th     25th  November—     14th     18th     19th     20th     28th     29th     30th  December—     5th     8th     9th     12th     13th     14th     19th     20th     23rd     24th     25th     28th			$\begin{array}{c} 1 \ 32 \\ 0 \ 35 \\ 0 \ 14 \\ 0 \ 75 \\ \hline \\ 0 \ 59 \\ \hline \\ 0 \ 22 \\ 0 \ 13 \\ 0 \ 75 \\ \hline \\ 0 \ 94 \\ 1 \ 0 \\ 0 \ 7 \\ \hline \\ 0 \ 35 \\ 0 \ 40 \\ 0 \ 15 \\ 0 \ 40 \\ 0 \ 15 \\ 0 \ 40 \\ 0 \ 15 \\ 0 \ 40 \\ 0 \ 22 \\ 0 \ 18 \\ 0 \ 7 \\ \hline \end{array}$	6 days	3 in. 4 in.	57 p
nuary— 2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 29th bruary— 2nd 5th 6th 13th 22nd 23rd arch— 2nd 3rd			1927. 0 28 0 13 4 12 0 91 1 3 3 0 4 4 0 39 0 40 0 50 7 72 1 82 0 80 0 44 0 0 20 0 56 0 56 0 30 30 30 30 30 30 30 30 30 30 30 30 3	51 days	28 in.	28 pts. 42 pts.	October—     2nd     14th     15th     23rd     24th     25th  November—     14th     18th     19th     20th     28th     29th     30th  December—     5th     8th     9th     12th     13th     14th     19th     20th     23rd     24th     25th			$\begin{array}{c} 1 \ 32 \\ 0 \ 35 \\ \hline \\ 0 \ 14 \\ 0 \ 75 \\ \hline \\ 0 \ 59 \\ \hline \\ 0 \ 22 \\ 0 \ 13 \\ 0 \ 75 \\ \hline \\ 1 \ 37 \\ \hline \\ 0 \ 94 \\ 0 \ 62 \\ 0 \ 15 \\ 0 \ 40 \\ 0 \ 15 \\ 0 \ 40 \\ 0 \ 15 \\ 0 \ 40 \\ 0 \ 62 \\ 0 \ 22 \\ 0 \ 18 \\ 0 \ 60 \\ 0 \ 22 \\ 0 \ 18 \\ 0 \ 40 \\ 0 \ 15 \\ 0 \ 40 \\ 0 \ 18 \\ 0 \ 40 \\ 0 \ 18 \\ 0 \ 40 \\ 0 \ 18 \\ 0 \ 40 \\ 0 \ 18 \\ 0 \ 40 \\ 0 \ 18 \\ 0 \ 40 \\ 0 \ 18 \\ 0 \ 40 \\ 0 \ 18 \\ 0 \ 40 \\ 0 \ 18 \\ 0 \$	6 days	3 in. 4 in.	57 р
nuary— 2nd 5th 18th 19th 20th 21st 22nd 23rd 24th 25th 25th 25th 26th 27th 29th 5th 6th 13th 13th 22nd 23rd 44th 5th			1927. 0 28 0 13 0 73 0 74 0 39 0 40 0 30 0 40 0 30 0 72 1 82 0 80 0 44 0 10 0 10 0 20 0 56 0 13 0 9 0 7	51 days	28 in.	28 pts. 42 pts.	October—     2nd     14th     15th     23rd     24th     25th  November—     14th     18th     19th     20th     28th     29th     30th  December—     5th     8th     9th     12th     13th     14th     19th     20th     23rd     24th     25th     28th			$\begin{array}{c} 1 \ 32 \\ 0 \ 35 \\ \hline \\ 0 \ 14 \\ 0 \ 75 \\ \hline \\ 0 \ 59 \\ \hline \\ 0 \ 22 \\ 0 \ 13 \\ 1 \ 37 \\ 0 \ 94 \\ 1 \ 0 \ 7 \\ \hline \\ 0 \ 35 \\ 0 \ 18 \\ 0 \ 40 \\ 0 \ 62 \\ 0 \ 22 \\ 0 \ 23 \\ 0 \ 6 \\ 1 \ 82 \\ \hline \\ \end{array}$	6 days	3 in. 4 in.	57 p

ROSEBA				RECORD		nued.	Date			Rainfal In. Pts		Total.		
	DAI	LY KA		-continu	ca.		June-			1				
			1928.				6th			0 18				
Date.			Rainfal		Total.		13th			0 42				
			In. Pts				14th			0 69				
January—							20th			0 18				
9th .			0 3				21st			0 7				
11th			0 28				24th			0 25				
13th			0 50				25th			0 42				
16th			0 47				26th			0 27				
17th			0 9				29th			0.50				
18th			0 11				30th			0 15				
20th			1 25								10 days	3 in.	13	pts
25th			0 5				July-				·			
26th			0 5				17th			0 25				
27th			0 4				25th			0 16				
28th			0 50								2 days	0 in.	41	pts
29th			0 13				August-			3711				
30th			0 24				61 4 1			Nil.				
31st			1 16				September—			0.10				
				14 days	4 m.	90 pts.	13th			0 10	1 day	0 in	10	nta
Eabane							October-				1 day	0 in.	10	Pts
February—			0.05				16th			0 4				
1st			0 25				19th			0 11				
6th			0 76				28th			0 17				
7th			0 6				25111			0 17	3 days	0 in.	39	nte
Sth			1 28				November-			1	o days	U 111,	02	Pres
9th			0 50				2nd			0 10				
10th	• •		1 33				6th			1 94				
11th			0 34				13th			0 8				
12th			0 23				20th			0 65				
15th			4 94				23rd			0 7				
17th			1 95				_01 d				5 days	2 in.	84	nts
19th			1 68				December-				to ditty o		(, 1	Pen
20th			0 39				4th			0 9				
21st			0 22				5th			0 23				
22nd			0 16				Sth			0 97				
23rd			0 80				19th			0 4				
24th			0 33				20th			1 0				
25th			0 4				22nd			0 4				
26th			1 80				23rd			0 2				
27th			0 24				24th			0 24				
29th			0 8	20 days	17 in	38 nte								
				40 days	17 111.	oo pas	25th			0 35				
March-							31st			0 14	10 days	3 in.	10	
lst			0 20								10 (11) 5	0 III.	34	1/13
			0 27				Total	for ye	ar 19	28	85 days	45 in.	21	pts
2nd			0 13											
3rd			0 15							1929.				
6th			0 17				January-			1020,				
7th							12th			1 30				
28th			0 9				20th			6 20				
29th			0 12				21st			3 11				
30th			0.30	0 10.00	1	99 1.40	23rd			0 6				
				8 days	1 111.	32 pts.								
							25th			0 20	5 dove	10 :	07	21.6
April—			0.70				February-				o days	10 in.	31	pt
3rd			0 10				7th			0 32				
4th			0 5				Sth			2 18				
7th			0 3							0 16				
16th	.:		0 7				9th							
18th			0 22				10th			0 10				
			0.89				11th			0 10				
19th			4 S				12th			0 83				
			0.93				17th			0 61				
20th			2 94				18th			0 39				
20th 21st			2 0				20th			1 88				
20th 21st 22nd							21st			4 29				
20th 21st 22nd 23rd														
20th 21st 22nd			0 4	11 days	11 in.	35 pts.	22ud			1 10				
20th 21st 22nd 23rd				11 days	11 in.	35 pts.				1 10 1 19				
20th 21st 22nd 23rd 24th				11 days	11 in.	35 pts.	23rd			1 19				
20th 21st 22nd 23rd				11 days		35 pts. 34 pts.					13 dave	13 in.	20	n

#### Appendix E.

## UPPER BURNETT AND CALLIDE LAND SETTLEMENT AREA.

WATER FACILITIES PROVIDED IN TERMS OF "THE UPPER BURNETT AND CALLIDE LAND SETTLEMENT ACT OF 1923."

Name of Selector.	Portion.	Parish.	Area.	Cost of Bore or Well.	Cost of Bore or Well charged to Selector.	Cost of Equipment (charged selector).
	. 136	Prairie	A. R. P. 366 1 0	£ s. d. 94 8 2	£ s. d. 94 8 2	£ & d. 168 11 11
	. 130 and 130A	Bailey	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	53 12 2 180 15 7	$\begin{bmatrix} 53 & 12 & 2 \\ 180 & 15 & 7 \end{bmatrix}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
- n a !	111	Cannindah	316 2 0	42 6 6	42 6 6	119 0 11
	. 22	Prairie	188 3 0	87 16 10	87 16 10	165 0 4
	23 53	ditto	195 2 20 283 2 33	66 10 3 57 16 8	66 10 3 57 16 8	
OR T 35 1	138	ditto Bailey	430 2 30	51 0 7	51 0 7	115 11 0
J. C. Malone	. 133 and 133A	ditto	338 0 20	35 15 3	35 15 3	123 8 5
P. G. Tollemache	. 56 55	Scoria	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	43 11 10 60 12 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
F. A. Tollemache A. O. Gehrke	25	Kooingal	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	64 2 0	64 2 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
D. S. Malone	139	Bailey	429 0 20	65 10 1	65 10 1	
J. Packham	. 13	Cannindah	251 0 20	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Nil, failure. 102 6 6	171 16 10
T. P. Rigney	24	ditto	509 2 10	44 12 3	44 12 3	119 18 10
S. Southwell	83	Bailey	293 0 0	56 9 9	56 9 9	123 14 6
W. G. Landgren	59 and 59A	ditto	214 0 20	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	101 10 7
E. D. Spletter	28 42	ditto	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	67 16 7 189 19 9	67 16 7 189 19 9	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
A. H. Adams H. A. L. McKean	29	ditto	225 3 0	78 18 2	78 18 2	133 11 10
H. S. Spencer	58	Scoria	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	48 2 4 63 7 8	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	137 15 6
H. S. Kelly	$ \begin{array}{c} 25 \\ 203 \end{array} $	Bailey Prairie	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	63 7 8 55 2 8	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
J. A. Coster	134 and 134A	Bailey	334 0 20	121 10 0	Nil, failure.	
			184 9 10	44 16 3 83 11 9	44 16 3 83 11 9	156 5 0
T. G. Cameron	120	Spier Prairie	484 3 10 509 1 0	43 0 9	83 11 9 43 0 9	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
J. P. Cronin B. C. P. Waine	137	ditto	366 2 0	41 0 6	41 0 6	160 17 4
H. C. Exeter	34	Spier	272 0 20	35 16 3	35 16 3	187 4 7
F. O. W. Burchardt	41	Prairie	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	117 14 11
H. E. Feldhahn T. McLennan	54	Spier Scoria	173 1 0	101 3 10	101 3 10	150 4 8
W. C. Paroz	40	Prairie	190 0 0	31 19 11	31 19 11	152 18 3
G. B. Showery	41	Spier	221 2 10 259 1 0	87 0 0 35 7 4	87 0 0 35 7 4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
A. G. T. Bate	13	Bailey Spier	225 2 30	83 4 6	83 4 6	100 10 1
G. E. Hodgetts A. A. Russell	19	Scoria	183 0 0	75 13 7	75 13 7	146 14 11
M. Behrendorff	16	Prairie		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	76 7 8 30 2 2	152 8 9
W. N. Perry	46	ditto Scoria	165 9 90	59 19 6	59 19 6	135 18 4
E. W. Russell H. J. Stone	54	Bundalba	296 1 24	100 16 9	100 16 9	
T. Payne	85	Bailey	970 9 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	140 6 8
G. R. Cox	91	Scoria	169 0 0		49 3 1	138 10 4
A. H. Russell	23	ditto	166 2 0		55 14 5	10000
R. A. Tognolini	33	Prairie Scoria	199 9 0		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	186 9 8 144 18 8
E. A. Russell	26	Clonmel	010 9 90	106 5 9	106 5 9	173 17 2
E. J. Basson	27	Bailey	226 3 0		111 16 7	
W. Cronin	150	Prairie	110 2 10		89 5 10 Nil, failure.	::
A. C. Morante	132 and 132A	Bailey .		73 14 9	73 14 9	
W. H. E. L'Estrange	48	Prairie .			87 19 0	165 9 8
T. P. O'Donovan	84	Coppin	100 0 0		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
L. J. Russell	181	Prairie . Cloninel .	355 1 0	59 1 1	59 1 1	219 6 4
H. J. Walter H. B. Ridge	14	Scoria .	162 2 0		75 10 5	143 18 5
J. F. King	5	Cannindah .	990 1 90		135 11 1 79 17 0	140 1 1
J. H. Behrendorff	19	Prairie .	998 9 96		121 7 4	172 18 3
A. A. F. Bainbrigge T. O'Brien	68	ditto .	318 0 0	83 3 0	83 3 0	143 16 1
T. J. Anderson	21	ditto .	000 0 00		82 6 9 87 4 2	
H. E. A. L'Estrange	45	Spier . Prairie .	999 9 90		70 13 7	145 3 8
M. Van Itallie T. A. Blackburn	19	Scoria .	166 0 0	70 8 9	70 8 9	
N. H. Robertson	174	Prairie .	313 2 0			139 6 11
A. E. Baldwin	17	Cannindah . ditto .	919 9 96			135 0 11
H. F. Kaden	124 and 124A		949 9 (	92 0 1	Nil, failure.	
D. J. Hanvin				44 0 0		179 15 4 164 19 8
R. Evans	58	ditto .	170 0 (			132 15 8
C. J. Cluff	76 125 and 125A	ditto .	217 2 1		35 0 5	
B. Cavanagh	125 and 1254	Prairie .	1,031 2	79 3 10		170 14 0
J. J. M. Davidson	105	Selene .	. 176 3 0			$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
S. Esposito and V. Zang				1 13 2 6	10 4 0	
	ari 34	Prairie .	444 1 6			138 16 11
J. W. Harris	34 1	Clonmel .	. 444 1 0 25 1 26	65 9 8 55 18 6	65 9 8 55 18 6	138 16 11 162 10 5
D. J. Hanvin, junr H. D. O'Beirne	ari 34	Clonmel . Bailey .	. 444 1 0 . 25 1 26 . 298 2 0	65 9 8 55 18 6	65 9 8 55 18 6 38 12 5	138 16 11 162 10 5

# Appendix E—continued. UPPER BURNETT AND CALLIDE LAND SETTLEMENT AREA—continued.

Name of Selec	ctor.	Portion.	Parish.	Area.	Cost of Bore or Well.	Cost of Bore or Well charged to Selector.	Cost of Equipment (charged Selector).
				A. R. P.	£ s. d.	£ s. d.	£ s. d.
J. T. Cluff			Bailey	313 0 0	90 6 10	90 6 10 41 1 8	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
C. R. Ridgway			ditto	24 2 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	37 15 4	131 16 8
N. J. Ridgway			ditto	28 0 20 304 3 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	219 4 3	221 10 11
J. Cooper			Bundalba	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	53 2 6	53 2 6	136 19 9
Γ. Daft		1.00	Coppin	341 2 0	48 17 4	48 17 4	153 15 2
J. Fraser Γ. H. Harrison		1.00	ditto	343 2 0	33 1 1	33 1 1	163 16 0
J. K. Mouatt			Clonmel	573 1 0	49 2 11	49 2 11	147 2 7
1. Robertson		7.0	Bundalba	315 1 4	134 3 6	134 3 6	163 16 6
A. D. Cook		49	Scoria	207 0 0	98 15 10	98 15 10	172 16 9
J. H. Ninness		90	Prairie	209 1 0	92 17 8	92 17 8 61 18 11	194 13 8
F. W. Boon		29 -	Scoria	176 3 0	61 18 11 48 19 7	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
V. J. Green		50	Bundalba	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	264 9 0	• •
A. Chandler		17 13	Prairie Scoria	159 0 10	74 16 7	74 16 7	139 19 7
F. W. Hardwick V. B. Stephens		27	Prairie	163 0 0	98 15 0	98 15 0	
A. Grant		15	Scoria	155 0 0	87 17 0	87 17 0	137 7 0
J. W. Kurtz		24	ditto	168 3 20	90 2 0	90 2 0	145 7 9
A. H. Morrison		94	Bailey	401 1 20	55 14 1	55 14 1	139 12 11
. L. Manthey		55	Prairie	316 1 11	65 6 4	65 6 4	190 9 0
I. McInerney		200	ditto	160 0 30	112 12 9 219 18 7	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
V. H. Prior		166	Selene	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	300 0 0	192 0 5
A. H. Bulow		103 89	ditto Bailey	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	63 14 5	63 14 5	145 18 3
E. F. Goode		110	ditto	26 0 20	38 11 6	38 11 6	
F. D. Elliott		36	Prairie	216 0 0	177 12 2	177 12 2	168 1 4
. Martin		104	ditto	227 2 20	147 13 9	147 13 9	185 10 0
). Nicholson		67	Bailey	291 0 0	73 12 11	73 12 11	151 9 1
N. Walker		37	Prairie	223 2 20	47 18 2	47 18 2	124 10 10
A. McDermid		63 and 63A	Bailey	228 2 10	73 16 4 89 19 9	Nil, failure. 89 19 9	173 17 10
. H. Behrendorff		20	Prairie	211 0 30	50 7 11	50 7 11	139 5 9
Harold		129	ditto	228 3 26	123 9 9	123 9 9	193 6 2
F. C. Rideout		67	ditto	325 0 20	83 3 9	83 3 9	94 9 0
R. S. Sutton		47	Spier	256 3 0	146 9 2	Nil, failure.	
					64 3 1	64 3 1	140 7 4
C. A. A. Timm		52	Prairie	278 1 0	66 16 8	66 16 8	
I. H. C. Patullo		201	ditto Scoria	159 1 10	161 9 4 95 17 11	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	139 8 3
. Maguire		34 16	3144	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	94 1 11	94 1 11	199 9 9
A. Walsh B. Maguire		37	ditto	289 2 30	102 19 2	102 19 2	144 11 1
B. J. Timm		35	Prairie	203 2 0	81 0 7	81 0 7	132 17 9
. M. Hickey		157	ditto	195 0 0	171 8 10	171 8 10	
I. Chapman		24	Kooingal	157 0 0	107 6 1	107 6 1	155 9 1
Jones		44	Spier	211 1 0	102 18 5	102 18 5	151 17 0
Moore		93 and 93A 17	Bailey	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	24 19 10	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
. Peace		128 and 128A	Scoria Bailey	$\begin{bmatrix} 177 & 2 & 0 \\ 210 & 1 & 4 \end{bmatrix}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
. E. Balchin		60	Scoria	188 0 0	246 1 5	114 1 6	189 14 8
I. Houreld		17	Coppin	295 3 0	230 0 4	Nil, failure.	
					51 16 4	51 16 4	190 14 8
B. H. Moore		96	Bailey	244 0 0	55 3 0	55 3 0	100 10 0
C. Coulson		58 30	Coppin	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	90 12 1	199 19 2
A. S. Meharry R. M. Boon		30	Scoria	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	65 16 7 66 4 11	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
. N. Short		19	Tellebang	161 0 30	666 5 4	300 0 0	357 10 7
K. Stewart		136	Bailey	809 0 0	67 18 10	67 18 10	162 14 8
Miller		. 116	Prairie	179 2 20	85 3 7	85 3 7	163 18 1
I. H. Mathison		81	Coppin	357 2 0	44 9 1	44 9 1	145 14 2
. I. Ninness		93 90	Prairie	262 0 0	102 7 5	102 7 5	35 3 10
. W. Naldrett . Randall		49	Coppin Bundalba	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	41 1 3	206 16 0
R. O. Marshall		60 and 60A	D - 11	239 2 0	63 12 11	69 19 2 63 12 11	146.34
B. Mouatt		5	Clonnel	591 1 0	38 5 6	38 5 6	146 14 9
. Hill		39	Kooingal	201 3 0	43 10 1	43 10 1	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
R. W. Rimmer		49	Clonniel	345 0 20	40 3 3	40 3 3	138 17 10
E. D. M. Jackson			Cloninel	401 1 0	47 13 1	47 13 1	141 18 1
H. Williams		65	Don	319 2 20	206 10 2	Nil, failure.	
					103 6 5	Nil, failure.	
'. E. Lord		124	Selene	227 3 20	147 18 4	147 18 4	
Ashton		1	ditto	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	137 5 6	137 5 6	173 15 9
R. Anderson		0.3	Prairie	210 0 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	201 2 3
I. J. Thompson			Coppin	291 2 0	228 7 3	Nil, failure.	217 14 8
				20. 2 0	55 16 8	55 16 8	207 19 6
. J. Petersen		40	Earlsfield	222 0 0	42 0 4	42 0 4	$\frac{207}{188} \frac{19}{7} \cdot 5$
		108	Prairie	362 2 0	193 13 10	153 14 0	100 1 .0
. Taylor			Bundalba	298 0 3	238 14 6	238 14 6	224 1 6
I. J. Brock			Earlsfield	365 0 0	39 15 6		1
I. J. Brock P. Kennedy		21				39 15 6	
J. Brock P. Kennedy A. Schunemann		197	Prairie	304 1 20	77 11 11	77 11 11	
I. J. Brock P. Kennedy		197 25	D				

## UPPER BURNETT AND CALLIDE LAND SETTLEMENT AREA—continued.

Name of Selector.		Portion.	Parish.	Area.	Cost of Bore or Well.	Cost of Bore or Well charged to Selector.	Cost of Equipment (charged Selector).
II N Tanas		0.0	9	A. R. P.	£ s. d.	£ s. d.	£ s. d.
H. N. Jones		$\frac{32}{25}$	Scoria Prairie	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	73 15 0 74 13 9	138 14 5
J. H. Ralph		113	Earlsfield	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	87 9 3	87 9 3	142 7 8
E. F. Schunemann		195	Prairie	304 2 10	38 8 2	38 8 2	147 2 2
G. C. Green		22	Coppin	385 2 0	131 8 7	78 0 0	85 17 6
J. Blaney		72	Priarie	282 1 20	40 12 0	40 12 0	197 6 8
J. McNamara		161	ditto	242 3 0	86 2 3	86 2 3	
S. Ogle		18	Bailey	255 2 10	413 0 8	400 0 0	101
Q. F. Bleys J. B. Loginoff		77	ditto	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	75 15 11 70 13 8	75 15 11 70 13 8	131 6 6
A. Baldwin		16	Cannindah	247 1 10	115 19 4	115 19 4	139 18 9
S. N. Dmitrieff		156	Prairie	233 0 0	29 14 11	29 14 11	143 9 8
F. Graham		4	Bailey	219 0 10	237 6 7	237 6 7	
A. Evans		21	Kroombit	443 0 0	58 4 3	58 4 3	
A. G. Dougall		16	Coppin	307 1 0	47 15 1	47 15 1	
M. McGee		122	Bailey	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	41 17 5	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	100 0 0
G. V. N. Gooch		50 122	Clonmel	200 0 0	40 10 4 68 15 5	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	130 3 2
E. A. Ewald G. W. Nicholson		175	ditto	319 3 30	71 4 5	71 4 5	179 8 0
R. E. Chetter		18	Spier	250 1 30	90 13 1	90 13 1	155 4 6
J. F. Simpson		62	Scoria	186 1 0	41 3 3	41 3 3	144 4 10
K. G. Banks		95	Bailey	315 0 0	74 12 8	Nil, failure.	
			10.	451 0 0	219 5 10	219 5 10	
P. J. Meagher		78	ditto	471 0 0	59 7 0	59 7 0	
J. Gillies		134	Earlsfield	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	88 17 6 61 18 5	88 17 6 61 18 5	171
J. McInnes		93 20	Coppin Kooingal	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	43 12 2	43 12 2	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
F. Mazzer J. Logan		11	Bailey	236 2 0	495 11 11	300 0 0	230 2 10
A. Millard		24	Clonmel	486 0 0	43 12 2	43 12 2	131 9 9
C. W. Anders		121	Prairie	206 1 0	233 9 4	121 4 3	
G. C. F. Staatz		46	Coppin	335 0 0	80 14 7	80 14 7	206   5   7
C. Beaton		23	Clonmel	399 0 0	53 15 7	53 15 7	104
J. B. Higgins		14	Spier	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	134 8 8
E. Wells		66 115	Coppin	254 2 20	209 18 1	128 11 8	155 2 9
C. O. Brown		54	ditto	312 0 0	35 7 3	35 7 3	• •
A. Kung N. W. Smith		6	Clonmel	598 3 0	56 2 3	56 2 3	
E. Hall		90 and 90A	Bailey	. 241 3 0	54 1 5	54 1 5	145 6 4
W. A. Gray		123	Prairie	187 2 0	41 19 10	41 19 10	212 19 9
A. Fraser		82	Coppin	517 3 0	42 16 3	42 16 3	
T. V. W. Newton		94	Prairie	254 1 0	78 3 10	78 3 10 47 12 6	188 10 5
P. M. Sheehan		7	Cannindah	496 2 20 373 3 20	47 12 6 60 15 3	47 12 6 60 15 3	149 14 11
M. Wynne		8 152	Kroombit	546 1 0	60 17 6	60 17 6	149 17 9
G. H. Ezard		64	ditto	302 0 20	43 1 5	43 1 5	161 3 5
D. Gorman		7	Coppin	293 1 0	121 2 1	121 2 1	237 13 10
H. M. Baynton		28	Kooingal	159 2 20	50 1 6	50 1 6	
J. Byrne		119	Selene	173 3 10	319 14 3	319 14 3	266 11 7
J. W. Woods		37	Spier	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	54 4 10	54 4 10 95 14 2	153 2 8
G. A. Elliott		9	Coppin	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	95 14 2 73 6 7	95 14 2 73 6 7	
N. F. Robinson		151 10	Prairie	267 2 20	78 3 5	78 3 5	• •
W. Wilson	E. H.	102	Selene	195 3 0	148 2 9	148 2 9	238 18 11
T. W. Robinson and Robinson	E2. 11.	102	Belene				
N. S. King		138	Prairie	402 2 0	49 0 4	49 0 4	221 13 9
R. T. Jubb		192	ditto	496 2 0	85 16 5	85 16 5	183 4 7
A. T. Lynn		101	Selene	202 0 0 410 0 30	155 12 4 68 10 10	155 12 4 68 10 10	164 14 11
J. M. Brady		119	Spier	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	68 10 10 70 13 11	70 13 11	
G. King, junr.		42	Cannindah	322 3 0 321 0 4	45 19 8	45 19 8	• •
L. A. Baldwin		8 43	Cannindan	384 0 0	42 10 2	42 10 2	192 7 1
L. J. Cook		5	ditto	302 2 0	79 2 1	79 2 1	209 16 8
C. Cuff	• • •	81	Bailey	278 0 0	67 18 5	67 18 5	
H. C. Hansen M. T. Jubb		191	Priarie	601 0 0	77 9 5	77 9 5	
F. G. Dahtler		11	Clonmel	579 3 0	48 5 5	48 5 5	
P. J. Hughes		20	Selene	899 2 0	94 15 4	94 15 4	
A. P. Woodford		89	ditto	262 3 20	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
J. W. Piggott		24	Bailey	228 2 0 304 1 20	93 11 1	93 11 1	
S. McCarthy		196	Prairie	733 0 0	224 11 0	Nil, failure.	
R. Hardwick		144	ditto	100 0 0	113 2 8	Nil, failure.	
					249 4 6	249 4 6	
F C Dobtler inne		15	Clonmel	694 1 0	49 7 1	49 7 1	
F. G. Dahtler, junr H. Kent		100	Coppin	316 0 20	273 15 8	273 15 8	
H. Kent H. G. Waine		118	Prairie	171 2 0	60 0 9	60 0 9	
W. F. Humprhries		145	Bailey	368 1 0	78 14 6	78 14 6	199 14 0
W. T. W. Neill		37	Earlsfield	192 3 0	Provided	own facility.	188 14 0 130 4 7
F. D. Behrendorff		18	Prairie	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Provided 235 16 7	own facility. 235 16 7	
		199	Prairie				• •
G. W. Taylor		32	Kooingal	180 2 7	51 14 5	51 14 5	

## UPPER BURNETT AND CALLIDE LAND $^{\circ}$ SETTLEMENT AREA—continued. COMMON WATER SUPPLIES.

Name of Selector.			Portion.	Portion. Parish.		Area.			Cost of Bore or Well.			Cost of Bore or Well charged to Selector.			Cost of Equipment (charged Selector).		
						Α.			£	8.	d.	£	8.	d.	£	8.	d
H. Daly			7	Bailey		217	1	1									
O. Chapman			6	ditto		226	1	0	>298	11	9	298	11	9	482	9	
. Emery			45	ditto		169	0	20	1								
B. Horn			46	ditto		169	- 1	0	J								
. W. Fleming		4.5	133	Prairie		541		37	57	15	8	57	15	8	269	11	-
. P. Fleming			134	ditto		373		21	301	10	0	01	10	U	200		
V. H. White			108	Selene		160	2	0	3 166	10	1	166	10	- 1			
. Holzl			107	ditto		154	3	20	5100	12	1	100	12	1			
. Woolley			17	Bailey		250	2	19	1								
. N. Lennox			10	ditto		238	1	39	1 405	1 ~	0	105	1 ~	8	Not	_	_
. Kannar			34	ditto		232	1	10	>497	19	8	497	19	8		e	01
. O. Griffith			35	ditto		240	0	10							plete	ea.	
. M. Roe			105	Coppin		323	0	30	3						37 .		
J. Evans			103	ditto		315		20	${}^{150}$	0	0	150	0	0	Not	ed.	or

## Appendix F.

#### UNSUCCESSFUL BORES.

Name o	f Sele	ector.		Portion.	Parish.	Area.	Cost of Bore.
E. J. McKenzie F. C. Smith J. Packham A. C. Morante T. Malone R. P. Johnson J. P. Fleming			 	119 129 13 132 and 132A 134 and 134A 99 134	Bailey Selene Cannindah Bailey ditto Prairie ditto	 A. R. P. 333 3 0 214 3 20 251 0 22 118 3 10 334 0 20 220 2 0 373 0 21	£ s. d. 437 1 2 165 9 7 174 0 0 233 1 3 39 18 0 121 10 0 112 14 10 144 19 10
J. Errington D. J. Hanvin A. McDermid A. H. Williams			 	117 124 and 124a 63 and 63a 65	Selene Bailey ditto Don	 230 3 0 243 2 0 228 2 10 319 2 20	95 12 9 182 3 4 27 8 1 208 0 9 92 0 1 73 16 4 206 10 2 103 6 5
B. R. Thompson H. Houreld C. G. Skinner W. B. Stephens R. S. Sutton K. G. Banks H. J. Barnes			 	162 17 122 121 47 95 139	Prairie Coppin Spier ditto ditto Bailey Prairie	328 2 0 295 3 0 464 1 20 464 2 0 256 3 0 315 0 0 960 1 0	230 0 4 418 9 4 146 9 2 74 12 8 170 8 7 283 19 10
R. Hardwick  H. J. Thompson J. Johnson J. H. Hutton C. G. Skinner J. Curgenven M. J. Kindleysides			 	8 94 24 122 11	Coppin Earlsfield Coppin Spier Coppin Kroombit	 733 0 0  291 2 0 323 3 0 477 1 0 464 1 20 283 0 0 452 1 30	224 11 0 113 2 8 228 7 3 266 19 10 468 5 11 291 11 6 167 3 5 163 13 5

#### UNSUCCESSFUL BORES.

		REASONS WHY BORES DECLARED FAILURES.
F. C. SMITH		Only 10 gallons per hour obtained at 315 ft.
E. J. McKENZIE		Bore sunk to depth of 486 ft. and flow of about 65 gallons per hour obtained. Selector claimed supply insufficient and, on advice of Commissioner of Irrigation, bore declared a failure.
E. J. McKENZIE (No.		Boring difficulties met with at 190 ft. /straightening up hole and extracting piece of torn casing). Site abandoned.
H. HOURELD		Twenty-four gallons per hour obtained, 300 ft. Stratum at that level very hard and difficult to penetrate. Bore abandoned.
B. R. THOMSON		Good supply obtained, but water certified by analyst as being "Usable by stock, but too hard and saline to be classed as a good stock water." In the meantime casing withdrawn by Irrigation Commission.
J. ERRINGTON		Bore sunk to 300 ft. No water. Deepening was held in abeyance while a test bore was sunk in the locality. Good supply was struck in this test bore beyond the 300-ft. level. In the meantime selector had surrendered his selection. No further action was taken.
C. G. SKINNER		Depth 350 ft. Very hard stratum (basalt and boulder formation) met with.
C. G. SKINNER an STEPHENS	d W. B.	Depth 601 ft. 6 in. in very hard strata. Ninety gallons per hour, or 2,160 gallons per day obtained at 287 ft. in fine sand. Water could not be separated from the fine sand. Bore sunk to 601 ft. 6 in., but no further supply of water struck. Strata very hard; bore abandoned.
A. H. WILLIAMS		Depth 292 ft., impenetrable stratum met with. Site abandoned for substituted one.

A. H. WILLIAMS (No. 2 Site) Depth 266 ft. Similar stratum as in first bore; site abandoned.

A. C. MORANTE .. . Depth 111 ft. Supply 800 gallons per hour. Suitability of water for stock doubtful. Declared a failure.

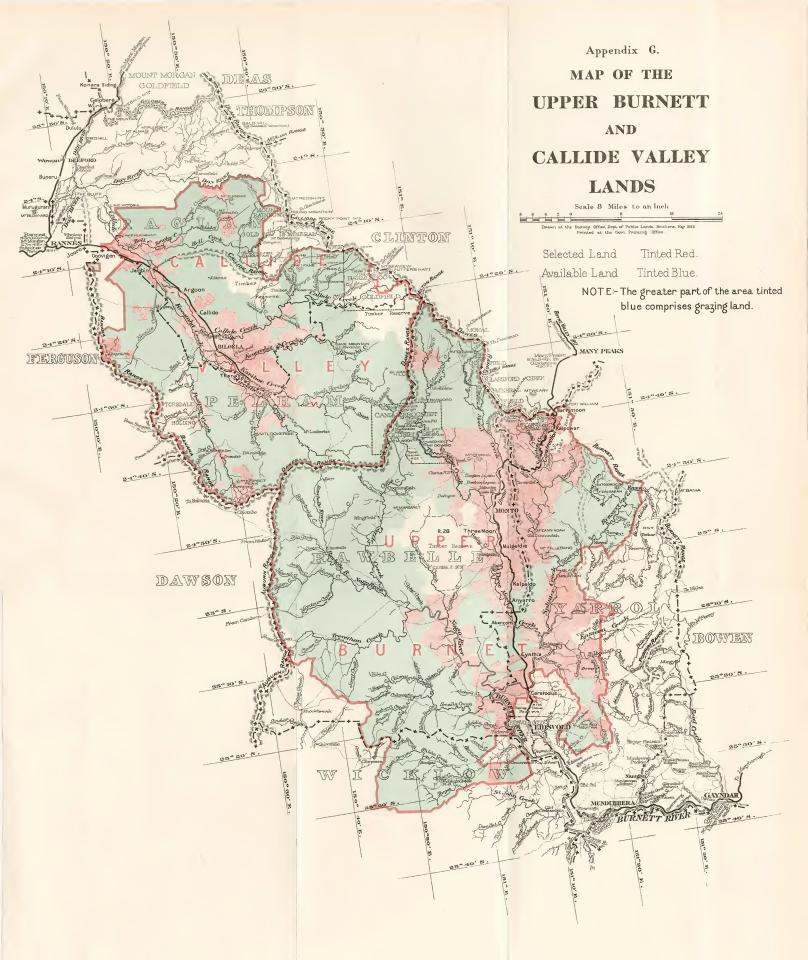
## UNSUCCESSFUL BORES—continued.

## REASONS WHY BORES DECLARED FAILURES—continued.

	2020	A STATE OF THE STA
D. J. HANVIN		A supply of water struck at 197 ft. Very bitter and useless.
A. McDERMID		Three hundred and sixty gallons per hour of good water obtained in fine silt stratum. Unable to separate silt from water. Site abandoned for substituted one.
T. MALONE		Two hundred and fifty gallons per hour obtained at 300 ft. Suitability of water for stock doubtful. Declared a failure.
R. P. JOHNSON		Well 60 ft. Small soakage met with at that depth. Portion forfeited. To be deepened by boring when portion reselected.
R. S. SUTTON		Fifty gallons per hour met with at 253 ft. Supply inadequate. Deepened to 300 ft.; stratum soapstone. Site abandoned for substituted one.
K. G. BANKS		Depth 100 ft. 6 in. Boulders met with. Site abandoned for substituted one.
H. J. BARNES		Very hard stratum met with; depth 99 ft. 3 in
H. J. BARNES (No. 2)		Depth 175 ft. 3 in.; stratum granite.
J. H. HUTTON		Depth 612 ft.; stratum shale and limestone with layer of basalt. Site abandoned.
R. HARDWICK		Depth 97 ft. Hole crooked, preventing further sinking. Abandoned for substituted site.
R. HARDWICK (No. 2)		Depth 40 ft.; very hard stratum. Too costly to penetrate.
H. J. THOMPSON		Drill lost in bore hole at 297 ft. Efforts to recover unsuccessful. Site had to be abandoned and another located.
J. JOHNSON		Forty gallons per hour obtained at 610 ft. Water flowed over top of casing although only standing a test of 40 gallons per hour. Bore deepened to 630 ft., but supply not increased. Bore abandoned; supply insufficient.
M. J. KINDLEYSIDES		Two hundred gallons struck at 140 ft. in seam of fine sand. Impossible to finalise bore, as seam of sand was between slippery-back clays, choking water off. Water shut off and sinking continued. At 207 ft. 15 gallons per hour was obtained, and bore was continued to 345 ft. without striking further supply.
J. CURGENVEN	• •	Depth 235 ft. Site abandoned owing to failure to remove obstruction—part of sinker bar and drill—in the hole. Small stream of 53 gallons per hour was met with at 87 ft., and drilling was continued to 235 ft. when driller had misfortune to loose tools in hole.
J. PACKHAM		Depth 118 ft. Exceptionally hard and difficult strata met with in bottom of bore. New site located.
J. P. FLEMING		Depth of facility, 300 ft.; well, 80 ft.; bore in bottom of well, 220 ft. Selector would not agree to further sinking. Site abandoned for substituted one.
J. P. FLEMING (No. 2)		Small stream of 10 gallons per hour struck at 235 ft. Prospects for better supply at greater depth appeared to be good. Granite struck at 380 ft. Boring continued to 390 ft. New site located.
J. P. FLEMING (No. 3)		Depth 108 ft. At 108 ft. no prospects of obtaining a supply at a greater depth. Site abandoned.

 $Price,\ 3s.\ 3d.]$ 

By Authority: A. J. CUMMING, Government Printer, Brisbane.



Q 333.76 Que

> JOHN OXLEY LIBRARY QUEENSLAND / REPORT AND RECOMMENDATIONS FOLLOWING ON AN

JO-04792821-00-001



